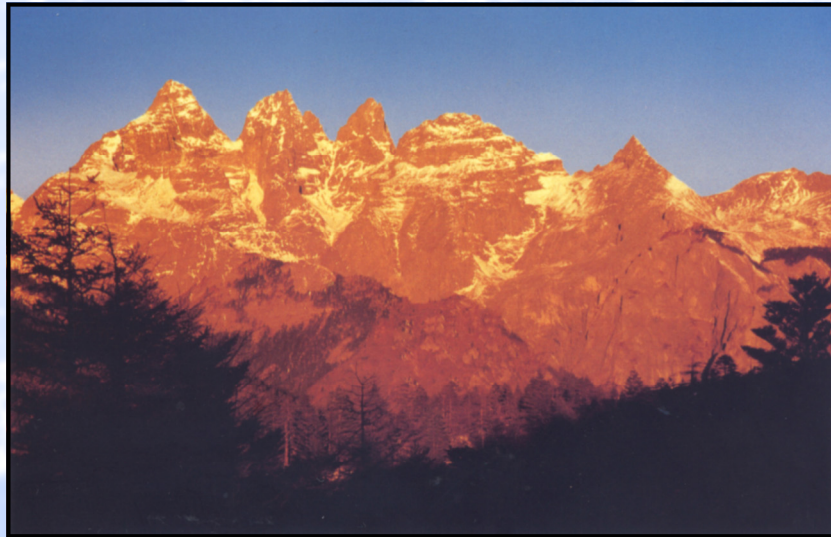


China Protected Areas Leadership Alliance Project

*Strengthening Leadership Capacity for Effective
Management of China's Protected Areas*



YEAR II

**A partnership of the
China State Forestry Administration
The Nature Conservancy China Program
East-West Center**

4-31 May 2009

Table of Contents

Executive Summary.....	1
Map of China Model National Nature Reserves	5
Descriptions of China’s 51 Model National Nature Reserves.....	6
Training Needs for Protected Area Managers.....	19
Year II Participants.....	21
Participant Contact Information.....	29
Classroom Training Schedule, Beijing Forestry University	31
Overview of Field Study and Collaborative Learning Component.....	33
U.S. Field Study Agenda.....	36
U.S. Field Study Organizations.....	52
U.S. Field Study Speakers.....	60
U.S. Field Study Speaker Contact Information.....	74
Project Staff	80
Project Staff Contact Information.....	83

Executive Summary

Protection of the natural and cultural heritage of China depends on the effective management of the nation's protected areas. The Government of China has set aside fifteen percent of its land as "protected areas," including nature reserves and national parks. These protected areas are China's treasures and the basis for future prosperity of people throughout China, and beyond. Properly designed and managed, these protected areas are critical to the protection of China's vital watersheds and other natural resources, such as animals, forests, plants and medicinal herbs; cultural resources, including those of China's indigenous minorities; and some of the world's most beautiful and historic landscapes. These areas are not only vital to the protection of China's natural resources but are also a source of national pride, of employment and income for rural populations, and a major draw for tourism.

Recognizing that legal designation is only the first step toward effective preservation, the government of China acknowledges that they face the challenges in developing the human capital needed to ensure the effective protection of these areas.

Approximately eighty percent of China's nature reserves are managed by the China State Forestry Administration and contain the majority of the nation's wealth of biological diversity. The State Forestry Administration has recently established a system of fifty-one model nature reserves. The Nature Conservancy China Program and the East-West Center in Honolulu, Hawaii, U.S.A. have joined together in partnership with the China State Forestry Administration to strengthen leadership capacity for effective management of China's protected areas by exposing selected nature reserve managers and government officials throughout China to innovative conservation management strategies taking place in the U.S. and Asia, as well as other countries around the world.

The China Protected Areas Leadership Alliance Project is a five year initiative that focuses on informing leaders and training trainers. The program was launched in 2008 and is already having a considerable impact in China, connecting nature reserve managers with their peers and with the governmental officials responsible for their legal and financial support. The field study portion of the program has provided them with new perspectives, issues, tools, and strategies addressing ways to resolve key conversation management challenges. First year project alumni are moving forward with management plans drafted at the end of the month-long program. These plans include concrete actions such as conducting management audits and building visitor centers informed by their U.S. experience.

Below is an overview of the China Protected Areas Leadership Alliance Project:

Objectives

- A core of one-hundred and fifty senior officials and nature reserves managers with improved professional knowledge and skills to lead a nationwide movement for more effective management of China's protected areas.
- Strengthened leadership of protected areas systems through continuing dialogue and mutual learning.
- Shared understanding at both the central government and field levels of best practices for dealing with the legal, social and political challenges of effective protected areas management.
- Improved relations between The Nature Conservancy and Chinese government agencies and protected areas managers.
- Improved domestic and international understanding of and cooperation with China's conservation efforts.

Target Audience

- Officials with key responsibility for the planning and management of protected areas in China at both the provincial and central government levels.
- Protected areas managers and senior technical staff in the field from fifty-one model nature reserves and other priority protected areas throughout China.

Identified Training Needs

The China State Forestry Administration has identified the following areas as priorities for shared learning:

- Laws, regulation and enforcement, including issues of land ownership and zoning systems.
- Management systems, including conservation area planning, management, business and financial planning, and human resource issues such as staff training, performance evaluation and volunteer participation.
- Scientific research and monitoring, including technical guidelines on biodiversity baseline surveys and long-term biodiversity monitoring and management systems.
- Public outreach and awareness building, including educational programs, visitor center and website design, broadcast and written materials and other outreach strategies.
- Strategies for engaging local communities in resource management, including social mobilization and livelihood improvement activities designed to contribute to improved community participation in land management.
- Sustainable use strategies, such as determining the capacity for land and water resource use, user fees, and innovative eco-tourism management.

Methodology

The first three years of the project consists of one month of intensive classroom training and field study. The fourth and fifth years will include in-country follow-up workshops and long-term networking activities.

Phase I

A group of approximately thirty people are selected each year to participate in classroom training and field study. A certificate from the China State Forestry Administration, The Nature Conservancy, and the East-West Center is awarded to each participant upon successful completion of the training.

- One week of classroom lectures and discussion at leading universities in Beijing presenting a global conservation overview and specific case studies, including advanced conservation methodologies and critical issues such as protected area design and management, the impacts of climate change and other key threats to biodiversity, ecotourism, and related legal issues and legislation. Public policy management is also a key component of this training. Speakers include faculty from top universities in Beijing high-level government officials and experts in conservation planning, leadership, governance, environmental law and finance.
- Two weeks of field study in the United States or other appropriate countries, including visits to national parks, public and private forest and wetland reserves, and discussions with government officials, conservation organizations, and community associations.

China Protected Areas Leadership Alliance Project

Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- One week of follow-up activities at the East-West Center concluding with a process of collaborative learning in the form of group discussions and break-out sessions to consolidate knowledge gained from presentations and field visits, discuss lessons learned, and integrate the information from a cultural context between the countries visited and China. The participants review the core competencies for protected area managers and develop a work plan for conservation management for each of their nature reserves or protected areas.

Phase II

In years four and five, the project will focus on long-term networking among participants and follow-up workshops conducted in-country at a variety of protected area sites to continue the learning and sharing of best practices. Workshops will focus on high priority shared issues and include case studies from protected areas in China, elsewhere in the Asia region, and around the globe.

Project Partners

China State Forestry Administration

The China State Forestry Administration is the central governmental agency in the country responsible for managing all of China's forestry and other natural conservation initiatives. Administrative departments include Reforestation, Forest Resource Management, Wildlife Conservation, Forest Police, Legislation and Policies, Development Planning and Fund Management, Science and Technology, and International Cooperation. The Administration's primary functions include: (1) drafting legislation, and enforcing laws and regulations related to reforestation, forest resource conservation, and forest ecosystems; (2) developing strategies and plans related to the management and use of the central fund for forestry-related activities; (3) coordinating forestry projects and directing development of state-owned forest farms and forest parks; (4) managing state-owned forest resources and coordinating nationwide assessments, monitoring and data collection of forest resources; (5) directing conservation and sustainable utilization of wildlife resources (directory of key protected species, wildlife and wetland nature reserves, international agreements on wetland conservation and import/export of rare, endangered or protected species); (6) preventing forest fires, coordinating rodent control efforts, conserving novel species and deterring invasive species; (7) reviewing key development projects related to state-owned forest assets; and (8) coordinating research, education, international exchange and human resource development.

The Government of China recognizes that ecological development is a long-term commitment and has identified "building an ecological civilization" to be important to achieving the harmonious development of human beings and nature. To build an ecological civilization, the State Forestry Administration is accelerating the development of modern forestry and rehabilitation of wetland and grassland ecosystems to strengthen natural conservation efforts. The government's key ecological programs include Natural Forest Protection, Land Conversion, Sandification Control for Areas in the Vicinity of Beijing and Tianjin, "Three North" and the Yangtze Shelterbelt Development, Combat Desertification and Land Degradation in Rocky Regions, Soil and Water Conservation, Grassland Conservation, Wetland Conservation and Coastal Shelterbelt Development.

The Nature Conservancy China Program

The Nature Conservancy was founded in 1951 in the United States and initiated its China Program in 1998. Over the past ten years, The Nature Conservancy China Program has worked locally with communities, government agencies, academic experts and other partners to help protect the fragile ecosystem, magnificent landscapes and ancient traditions of greater China, from the rugged mountains of Yunnan Province to the waters of the South China Sea. The Yunnan Great Rivers Project lies in northwest Yunnan Province, where some of Asia's last untouched forests as well as lush valleys, river gorges and ice-capped mountains are found, as well as the most vital plant diversity centers in the northern temperate hemisphere. Four of Asia's great rivers including the Yangtze and the Mekong, pass through the region. The Nature Conservancy assisted in drafting a five-year plan to establish nature reserves, reduce pollution, nurture jobs that will have minimal environmental impact, and promote ecotourism.

Other projects being undertaken by The Nature Conservancy China Program include: (1) a nationwide assessment of China's conservation priorities based on the work in Yunnan and partnership with the Chinese Government that will

result in a comprehensive, scientific map of the country's important biodiversity along with a plan to redesign and expand the nature reserve system; (2) an Education for Sustainability program that is developing and testing curriculum integrating conservation goals and social justice; and (3) the Yunnan Golden Monkey Conservation Program, an integrated conservation effort among government agencies, research institutes, and non-governmental organizations.

In addition, The Nature Conservancy China Program helped China achieve a conservation landmark in 2007 with the establishment of the first national park—Pudacuo National Park—in China's Southwest Yunnan Province. This park will serve as a model for a new Chinese national park system. The Nature Conservancy introduced the concept of the national park system to government officials and advised the government on how best to establish this type of protected area.

East-West Center

Officially known as the Center for Cultural and Technical Interchange Between East and West, the East-West Center is a public, nonprofit national and regional research and education institution with an international board of governors. The East-West Center was established by the United States Congress in 1960 to strengthen relations among the peoples and nations of Asia, the Pacific, and the United States. The Center promotes cooperation and understanding, serves as a resource for information and analysis on critical issues of common concern. The East-West Center's overall mission is to promote a peaceful, prosperous and just Asia Pacific region.

The East-West Center is: (1) a U.S.-based institution for public diplomacy in the Asia Pacific region with international governance, staffing, students and participants; (2) an international hub for cooperative research, education and dialogue on issues of vital importance to the U.S. and the nations of Asia and the Pacific; (3) a public-private partnership, with operating funds from the U.S. Congress, and program funds principally from private agencies, individuals, foundations, corporations, and government of the region; (4) a worldwide network of more than fifty thousand alumni and six hundred partner organizations; and (5) a 21-acre campus in Honolulu, designed by world-renowned architect I.M. Pei; and a Washington, D.C. office focused on preparing the U.S. for an era of growing Asia Pacific prominence.

The East-West Center serves the region by: (1) developing global leadership through educational programs and exchanges that help current and future leaders think, act and work with deep understanding of the people and issues in this dynamic region; (2) providing timely and relevant information through publications, media and internet, briefings, lectures, interviews, and in-depth programs; (3) analyzing problems and offering solutions through collaborative research that affects people's lives and is of special value to policymakers; (4) anticipating and resolving conflicts by promoting mutual understanding, mediating disputes and reducing tensions in the region; (5) strengthening regional cooperation by sharing best practices and dialogue with key regional organizations; and (6) building lasting networks together with partner organizations and alumni in the U.S., Asia, the Pacific and throughout the world.

China Model National Nature Reserves



China National Nature Reserves

China established its first nature reserve, the Dinghu Mountain Nature Reserve in Guangdong Province, in 1956. Some 50 years later, at the end of 2007, 2,531 nature reserves of various kinds have been established throughout the country, covering 15.19 percent of China's total land area (151.88 million hectares or 375,303,653 acres). These reserves represent all major ecological zones, including natural forests, deserts, grasslands, and wetlands. In addition, a six million hectare marine area has been set aside for preserving marine wildlife. Of the 2,531 nature reserves, 303 are designated as national nature reserves, occupying 93.66 hectares of China's nature reserve land areas. The International Man and Biosphere Reserve Network list 28 of these reserves; 33 are included in the Ramsar List of Wetlands; and ten are designated as World Natural Heritage Sites.

Several government agencies are responsible for managing these nature reserves—including China's State Forestry Administration (responsible for nearly 80 percent), the State Environmental Protection Administration, and the Ministry of Land and Natural Resources. Under a forest resource development plan prepared by the State Forestry Administration in 2007, an additional 2,300 nature reserves are to be established by the end of 2020, with a total land area of 140 million hectares (345,947,534 acres)—all under the jurisdiction of the State Forestry Administration.

Model National Nature Reserves

The State Forestry Administration has recently established a system of 51 model national nature reserves and plans to build their leadership and management capacity.

1. Beijing Song Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: North China Plain and Loess Plateau Area

Administrative Location: Yanqing County

Size (Hectare): 4,660

Established: 1985

Protected Plants and Animals: Secondary *Pinus Tabulaeformis* forest and wild animals

Demonstration Focus: Innovate new protection management approaches in peri-urban nature reserves.

Conduct volunteer service and adoption; temperate forest ecosystem stationary monitoring; nature reserve product certification; peri-urban ecotourism; popular science education and eco-education programs with "Green Beijing" theme.

2. Tianjin Baxian Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: North China Plain and Loess Plateau Area

Administrative Location: Ji County

Size (Hectare): 5,360

Established: 1984

Protected Plants and Animals: *Phellodendron amurense* (Amur Cork-tree), Manchurian ash, *Panthera pardus* (Leopard), *Aquila chrysaetos* (Golden Eagle), *Bonasa sewerzowi* (Chinese Hazel Grouse)

Demonstration Focus: Innovate new protection management approaches in peri-urban nature reserves.

Conduct volunteer service and adoption; temperate forest ecosystems stationary monitoring; nature reserve product certification; conduct peri-urban ecotourism; popular science education and eco-education programs with "Green Tianjin" theme.

3. Hebei Wuling Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: North China Plain and Loess Plateau Area

Administrative Location: Xinglong County

Size (Hectare): 14,300

Established: 1983

Protected Plants and Animals: *Macaca mulatta* (Rhesus Monkey), *Aquila chrysaetos* (Golden Eagle), *Panthera pardus* (Leopard), *Panax ginseng* (Radix Ginseng), *Juglans regia Linn* (Persian Walnut)

Demonstration Focus: Establish volunteer service and adoption systems. Conduct Beijing and Hebei joint-establishment and-co-management patterns; community development demonstration villages; community ecological compensation programs; Beijing neighboring ecotourism management.

4. Shanxi Pangquan Valley, National Nature Reserve

Type: Wild animals

Geographic Location: North China Plain and Loess Plateau Area

Administrative Location: Jiaocheng, Fangcheng

Size (Hectare): 10,444

Established: 1980

Protected Plants and Animals: *Crossoptilon mantchuricum* (Brown-cared Pheasant), *Larix principis-rupprechtii Mayr* (North China Deciduous Pine), *Picea asperata Mast* (Spruce), *Panthera pardus* (Leopard), *Panax ginseng* (Radix Ginseng), *Juglans regia Linn* (Persian Walnut)

Demonstration Focus: Brown-cared Pheasants reproduction and nurture studies; community development demonstration in villages; community ecological compensation programs

5. Inner Mongolia Greater Hinggan Mountain Hanma, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Jinhe

Size (Hectare): 107,350

Established: 1979

Protected Plants and Animals: Xing'an deciduous pine forest and primeval forest

Demonstration Focus: Community joint-establishment and co-management patterns; community development villages; community ecological compensation programs; understory resource utilization patterns

6. Inner Mongolia Helan Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Mongolia-Xinjiang Plateau Desert Area

Administrative Location: Bayan Hot City of Alxa Zuoqi

Size (Hectare): 67,710

Established: 1992

Protected Plants and Animals: *Qinghai Picea Asperata Mast* (Spruce) forest for water resource conservation and forest ecosystem

Demonstration Focus: Qinghai Spruce forest for water resource conservation construction studies; community joint-establishment and co-management patterns; understory resource utilization patterns

7. Inner Mongolia Dalai Lake, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Hulunbuir City, Manzhouli City

Size (Hectare): 740,000

Established: 1986

Protected Plants and Animals: Prairie, lake and wetland ecosystem

Demonstration Focus: Wetland restoration and reconstruction; birds banding; ecotourism management; wetland resource utilization patterns

8. Liaoning Shuangtai River Mouth, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Panjin City

Size (Hectare): 128,000

Established: 1985

Protected Plants and Animals: *Red-Crowned Crane* (Red-crowned Crane), *Larus saundersi* (Saunders' Cull), rare water birds, wetland ecosystem environment

Demonstration Focus: Rare water birds reproduction and nurturance studies; establish teaching and best practice bases; establish field education spots; bird protection science education programs; ecotourism management; wetland resources utilization patterns

9. Jilin Changbai Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Baishan City, Yanbian Korean Autonomous Prefecture

Size (Hectare): 196,465

Established: 1960

Protected Plants and Animals: Forest ecosystem, wild animals and plants, natural heritage

Demonstration Focus: Optimize reserves' ranges and functional regionalization; ecosystem protection studies; establish scientific research and teaching and practice bases; establish field education spots; ecotourism management

10. Heilongjiang Fenglin, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Wuying District of Yichun City

Size (Hectare): 18,165

Established: 1958

Protected Plants and Animals: Primeval *Pinus Koraiensis* (Korean Pine) forest and its ecosystem

Demonstration Focus: Korean Pine nurturance studies; establish sign management and protection agreements for the Korean Pine based on scientific research; sign management and protection agreements; community joint-establishment and co-management patterns; understory resource utilization patterns

11. Heilongjiang Huzhong, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Northeast China Mountain Plain Area

Administrative Location: Huzhong District of the Greater Hinggan Mountains

Size (Hectare): 167,213

Established: 1984

Protected Plants and Animals: Frigid and temperate bright coniferous forest, *Martes zibellina* (Sable), *Gulo gulo* (Wolverine), *Parvirostris* (Spotted Capercaillie), *Alces alces* (Moose)

Demonstration Focus: Sable, Wolverine and other species reproduction and nurturance studies; establish sign management and protection agreements for the Korean Pine based on scientific research; community joint-establishment and co-management patterns; understory resource utilization patterns

12. Heilongjiang Zhalong, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Qiqihar City, Daqing City

Size (Hectare): 210,000

Established: 1979

Protected Plants and Animals: Red-crowned Crane

Demonstration Focus: Ownership and management jurisdiction identification; Red-crowned Crane life habitat, reproduction and nurturance studies; establish scientific research, teaching, and best practice bases; establish field education spots; conduct protection rare water birds popular science education; community joint-establishment and co-management patterns; wetland resource utilization patterns

13. Heilongjiang Sanjiang, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Jiamusi City

Size (Hectare): 198,000

Established: 1994

Protected Plants and Animals: *Ciconia boyciana* (Oriental White Stork), wetland ecosystem

Demonstration Focus: Wetland restoration studies; establish scientific research, teaching, and best practice bases; establish visitor interpretive centers; establish field education spots; community joint-establishment and co-management patterns; wetland resources utilization patterns

14. Heilongjiang Liangshui, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Northeast China (mountain plain area)

Administrative Location: Yichun City

Size (Hectare): 12,133

Established: 1980

Protected Plants and Animals: *Pinus koraiensis* (Korean Pine) seed forest

Demonstration Focus: Korean Pine seed forest protection management and nurturance studies; establish Korean Pine scientific research bases; community joint-establishment and co-management patterns; community ecological compensations; understory resource utilization patterns

15. Shanghai Chongming East Beach Birds, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Chongming County

Size (Hectare): 24,155

Established: 1998

Protected Plants and Animals: Migratory water birds and river mouth wetland ecosystem

Demonstration Focus: Establish volunteer service and adoption systems; urban wetland construction, wetland protection, and utilization studies; establish scientific research, teaching, and best practice bases; urban ecotourism management

16. Jiangsu Dafeng Pere David's Deer, National Nature Reserve

Type: Wild animals

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Dafeng City

Size (Hectare): 78,000

Established: 1986

Protected Plants and Animals: *Elaphurus davidianus* (Pere David's Deer) and coastal shoreline wetland
Demonstration Focus: Ownership and management jurisdiction identification; purchase of land for reserve; establish volunteer service and adoption systems; Pere David's Deer protection and utilization; coastal shoreline and wetland sustainable utilization studies; establish scientific research, teaching and best practice bases; conduct stationary monitoring; establish field education spots

17. Zhejiang Tianmu Mountain, National Nature Reserve

Type: Wild plants

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Linan City

Size (Hectare): 4,284

Established: 1956

Protected Plants and Animals: *Ginkgo biloba* (Maidenhair Tree), *Cercidiphyllum japonicum* (Chinese Katsura Tree), *Pseudolarix amabilis* (Golden Larch), rare plants

Demonstration Focus: Ownership and management jurisdiction identification; purchase of lands for reserve; community joint-establishment and nature reserve efficient management demonstration studies; peri-urban popular science education, eco-education, and moral education programs; peri-urban ecotourism management; bamboo resource utilization patterns

18. Anhui Chinese Auigator, National Nature Reserve

Type: Wild animals

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Xuanzhou, Jing County, Guangde, Langxi, Nanling

Size (Hectare): 43,333

Established: 1982

Protected Plants and Animals: *Alligator sinensis* (Chinese Auigator) and their living environment

Demonstration Focus: Chinese Auigator and their living environment protection and reproduction studies; resource utilization patterns

19. Fujian Wuyi Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Wuyishan City, Jianyang City, Guangze County, Shaowu City

Size (Hectare): 56,500

Established: 1979

Protected Plants and Animals: Central Asia tropical forest ecosystem and rare animals and plants

Demonstration Focus: Optimize reserve ranges and functional regionalization; Central Asia forest ecosystem in the tropical and rare animals, plants protection, and sustainable utilization studies; ecotourism management

20. Jiangxi Poyang Lake, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Yongxiu, Xingzi, Xinjian

Size (Hectare): 22,400

Established: 1983

Protected Plants and Animals: Winter migratory birds

Demonstration Focus: Middle and lower reaches of the Yangtze River wetland protection management and sustainable utilization studies; conduct epidemic source surveys; wetland resources utilization patterns

21. Jiangxi Jinggang Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Jinggangshan City

Size (Hectare): 20,700

Established: 1981

Protected Plants and Animals: *Taxus chinensis var. mairei* (Maire Yew), *Bretschneidera sinensis* Hemsli., *Ginkgo biloba* (Maidenhair Tree), *Syrnaticus reevesii* (White-necked Long-tailed Pheasant), *Panthera tigris amoyensis* (South China Tiger), *Panthera pardus* (Leopard), etc.

Demonstration Focus: Maire Yew, *Bretschneidera sinensis* Hemsli, Maidenhair tree, White-necked Long-tailed Pheasant, South China Tiger, Leopard, and rare animal reproduction and nurturance studies; establish scientific research, teaching, and best practice bases; increase international cooperation and communications; join the UNESCO Directory of World Cultural and Natural Heritage; ecotourism management

22. Shangdong Yellow River Delta, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: North China Plain and Loess Plateau Area

Administrative Location: Dongying City, Kenli County, Lijin County

Size (Hectare): 153,000

Established: 1990

Protected Plants and Animals: *Red-crowned Crane* (Red-crowned Crane), *Ciconia boyciana* (White Stork), *Psephurus gladius* (Chinese Paddlefish), and wetland ecosystem

Demonstration Focus: Establish volunteer service and adoption systems; Yellow River Delta wetland studies; Yellow River Mouth wetland surveys; conduct international cooperation and communications; join international key wetlands; community development demonstration villages; resource utilization patterns

23. Henan Neixiang Baoyaoman, National Nature Reserve

Type: Forest ecosystem

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Neixiang County

Size (Hectare): 5,413

Established: 1980

Protected Plants and Animals: Transitional zone forest ecosystem and rare wild animals and plants

Demonstration Focus: Transitional zone forest ecosystem studies; transitional zone forest ecosystem surveys; community joint-establishment and co-management patterns; ecotourism management

24. Henan Dongzhai Birds, National Nature Reserve

Type: Wild animals

Geographic Location: East China Central China (hilly plain area)

Administrative Location: Luoshan County

Size (Hectare): 46,800

Established: 1982

Protected Plants and Animals: *Phasianus reevesii* (White-crowned Long-tailed Pheasant), rare birds

Demonstration Focus: Reeves's Pheasant, and other rare bird reproduction and nurturance studies; conduct unifying studies; community joint-establishment and co-management patterns; ecotourism management

25. Hubei Shennongjia, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Shennongjia forest area

Size (Hectare): 70,468

Established: 1982

Protected Plants and Animals: Subtropical forest ecosystem; *Rhinopithecus roxellanae* (Golden Monkey), *Panthera tigris amoyensis* (South China Tiger), *Davidia involuclata* (Dove Tree), rare animals and plants

Demonstration Focus: Optimize reserves ranges and functional regionalization; innovate in protection management approaches Golden Monkey, South China Tiger, Dove Tree, and other rare animals and plants habit studies; community ecological compensation programs; ecotourism management

26. Hunan Huping Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: East China and Central China (hilly plain area)

Administrative Location: Shimen County

Size (Hectare): 66,568

Established: 1982

Protected Plants and Animals: *Davidia involuclata* (Dove Tree), *Davidia involuclata* Baill var. *vilmoriniana* (Dode), Wange, *Taxaceae* (Chinese Yew), *Panthera tigris amoyensis* (South China Tiger), *Panthera pardus* (Leopard), *Neofelis nebulosa* (Clouded Leopard)

Demonstration Focus: Dove Tree, *Davidia involuclata* Baill var. *vilmoriniana* (Dode), Wange, Chinese Yew, South China Tiger, Leopard, Clouded Leopard, and other rare animals and plants habit studies; increase international cooperation and communication; joined International Man and Biosphere Reserve Network; community joint-establishment and co-management patterns; community development village programs; community ecological compensation programs; ecotourism management

27. Hunan East Dongting Lake, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: East China and Central China (hilly plain area)

Administrative Location: Yueyang City

Size (Hectare): 190,000

Established: 1982

Protected Plants and Animals: *Lipotes vexillifer* (Yangtze River Dolphin), *Neophocaena phocaenoides* (Finless Porpoise), *Grus leucogeranus* (Siberian Crane), *Grus monacha* (Hooded Crane), *Ciconia boyciana* (White Stork), *Ciconia nigra* (Black Stork), wintering water birds

Demonstration Focus: Yangtze River Dolphin, Finless Porpoise, Siberian Crane, Hooded Crane, White Stork, Black Stork, and wintering water birds protection and reproduction and nurturance studies; conduct epidemic source surveys; sign management and protection agreements; community joint-establishment and co-management patterns; community development village programs; ecotourism management; wetland resource utilization patterns

28. Hunan Guangdong Neilingding Futian, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: South China (low mountain hilly area)

Administrative Location: Shenzhen

Size (Hectare): 922

Established: 1984

Protected Plants and Animals: Mangrove forest wetland ecosystem, *Platalea minor* (Black-faced Spoonbill), *Pelecanus onocrotalus* (Dalmatian Pelican), *Macaca mulatta* (Rhesus Monkey)

Demonstration Focus: Establish volunteer service and adoption systems; urban wetland construction studies; conduct international cooperation and communications; establish visitor interpretive centers; establish field education spots; ecotourism management

29. Guangdong Zhanjiang Mangrove Forest, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: South China (low mountain hilly area)

Administrative Location: Zhanjiang City

Size (Hectare): 20,279

Established: 1990

Protected Plants and Animals: Wetlands of international importance, mangrove forest wetland ecosystem, and birds

Demonstration Focus: Establish volunteer service and adoption systems; international key wetland construction; mangrove forest wetland ecosystem and birds protection studies; ecotourism management; wetland resource utilization patterns

30. Guangxi Maoer Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: East China and Central China (hilly plain area)

Administrative Location: Xing'an, Ziyuan, Longsheng

Size (Hectare): 17,009

Established: 1982

Protected Plants and Animals: *Taxus chinensis var. mairei* (Maire Yew), *Ginkgo biloba* (Maidenhair Tree), *Taxaceae* (Chinese Yew), *Neofelis nebulosa* (Clouded Leopard), *Panthera pardus* (Leopard), *Python molurus* (Boa), *Ursus thibetanus* (Asiatic Black Bear), etc.

Demonstration Focus: Maire Yew, Maidenhair Tree, Chinese Yew, Clouded Leopard, Leopard, Boa, Asiatic Black Bear, and other rare animals, plants habit and protection studies; establish field education spots; community joint-establishment and co-management patterns; community development villages programs; ecotourism management; resource utilization patterns

31. Hainan Dongzhai Harbor, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: South China (low mountain hilly area)

Administrative Location: Qionghai City

Size (Hectare): 3,338

Established: 1980

Protected Plants and Animals: Mangrove forest

Demonstration Focus: Establish volunteer service and adoption systems; international key wetland construction, mangrove forest ecosystem protection, and restoration studies; community joint-establishment and co-management patterns; ecotourism management; wetland resource utilization patterns

32. Hainan Bawang Mountain, National Nature Reserve

Type: Wild animals

Geographic Location: South China (low mountain hilly area)

Administrative Location: Changjiang County, Baisha County

Size (Hectare): 6,626

Established: 1980

Protected Plants and Animals: *Hylobates concolor* (Concolor Gibbon)

Demonstration Focus: Concolor Gibbon and their habitat restoration studies; conduct tropical forest ecosystem scientific research surveys; conduct international cooperation and communications; joined International Man and Biosphere Reserve Network; ecotourism management

33. Chongqing Jinyun Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Beipei District, Shapingba District, Bishan County

Size (Hectare): 7,600

Established: 1979

Protected Plants and Animals: The natural ecosystem formed by forest vegetation and their living environment

Demonstration Focus: Studies on the natural ecosystem formed by subtropical forest vegetation and their living environment; sign management and protection agreements; community joint-establishment and co-management patterns; community development demonstration villages; community ecological compensations; ecotourism management; resource utilization patterns

34. Sichuan Wolong, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Southwest China (mountain gorge area)

Administrative Location: Wenzhou County of Aba Tibetan and Qiang Autonomous Prefecture

Size (Hectare): 200,000

Established: 1975

Protected Plants and Animals: *Ailuopodidae melanoleuca* (Giant Panda), *Rhinopithecus roxellanae* (Golden Monkey), *Budorcas taxicolor* (Takin), *Davidia involuclata* (Dove Tree), etc., and Alpine forest ecosystem

Demonstration Focus: Establish volunteer service and adoption systems; Giant Panda reproduction and nurturance and field reintroduction studies; establish Giant Panda reproduction bases; increase international cooperation and communications; Giant Panda popular science education programs; sign management and protection agreements; community joint-establishment and co-management patterns; community development demonstration villages

35. Sichuan Province Tangjiahe, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Guangyuan City of Sichuan Province

Size (Hectare): 40,000

Established: 1978

Protected Plants and Animals: *Ailuopodidae melanoleuca* (Giant Panda), *Rhinopithecus roxellanae* (Golden Monkey), *Budorcas taxicolor* (Takin), *Panthera pardus* (Leopard), *Neofelis nebulosa* (Clouded Leopard), *Davidia involuclata* (Dove Tree), *Ginkgo biloba* (Maidenhair Tree), etc.

Demonstration Focus: Core zone purchase of lands; Giant Panda, Golden Monkey protection and habitat restoration studies; resource background investigations; conduct Giant Panda, Golden Monkey stationary monitoring; sign management and protection agreements; community joint-establishment and co-management patterns; community development village program; community ecological compensations; understory resource utilization patterns

36. Sichuan Wanglang, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Pingwu County of Sichuan Province

Size (Hectare): 32,297

Established: 1965

Protected Plants and Animals: *Ailuopodidae melanoleuca* (Giant Panda), *Rhinopithecus roxellanae* (Golden Monkey), *Budorcas taxicolor* (Takin), and their habitat and forest ecosystem

Demonstration Focus: Establish volunteer service and adoption systems; Giant Panda, Golden Monkey protection and habitat restoration studies; establish scientific research, teaching and practice bases; conduct international cooperation and communications; ecotourism management

37. Guizhou Fanjing Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Jiangkou, Yinjiang, and Songtao of Tongren region

Size (Hectare): 41,900

Established: 1978

Protected Plants and Animals: *Rhinopithecus brelichi* (Guizhou Golden Monkey), etc. rare animals and plants and aboriginal vegetation

Demonstration Focus: Subtropical forest ecosystem studies; conduct international cooperation and communications; conduct Subtropical forest ecosystem popular science education programs; community joint-establishment and co-management patterns; ecotourism management

38. Guizhou Maolan, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Zhibo County of South Guizhou Prefecture

Size (Hectare): 21,285

Established: 1986

Protected Plants and Animals: Typical Karst forest ecosystem and rare wild animals and plants

Demonstration Focus: Typical Karst forest ecosystem studies; conduct stationary monitoring; establish field education areas; ecotourism management

39. Yunnan Xishuangbanna, National Nature Reserve

Type: Forest ecosystem

Geographic Location: South China (low mountain hilly area)

Administrative Location: Jinghong, Menghai, Mengla

Size (Hectare): 247,439

Established: 1958

Protected Plants and Animals: Tropical rainforest, tropical seasonal rainforest, monsoon evergreen broadleaved forest, and *Parashorea chinensis* (Chinese Parashorea), *Elephas maximus* (Indian Elephant)

Demonstration Focus: Tropical forest ecosystem studies; Indian Elephant and their habitat protection and restoration studies; conduct tropical forest ecosystem stationary monitoring; sign management and protection agreements; community ecological compensations; ecotourism management

40. Yunnan Gaoli Gong Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Southwest China (mountain gorge area)

Administrative Location: Baoshan, Tengchong, Lushui, Fugong, Gongshan

Size (Hectare): 405,200

Established: 1981

Protected Plants and Animals: Middle mountain moist broad-leaved forest, monsoon evergreen broadleaved forest

Demonstration Focus: Optimize reserves ranges and functional regionalization; middle mountain moist broad-leaved forest, monsoon evergreen broadleaved forest studies; conduct middle mountain moist broad-leaved forest, and monsoon evergreen broadleaved forest stationary monitoring; ecotourism management; resource utilization patterns

41. Yunnan Baima Snow Mountain, National Nature Reserve

Type: Wild animals

Geographic Location: Southwest China (mountain gorge area)

Administrative Location: Deqin, Weixi

Size (Hectare): 281,640

Established: 1981

Protected Plants and Animals: *Rhinopithecus bieti* (Yunnan Snub-nose Monkey), *Abies Mill* (Faber Fir), frigid and temperate coniferous forest ecosystem

Demonstration Focus: Guizhou Golden Monkey, Faber Fir, frigid and temperate coniferous forest ecosystem protection and studies; conduct stationary monitoring; community joint-establishment and co-management patterns; ecotourism management; resource utilization patterns

42. Tibetan Qomolangma Mountain, National Nature Reserve

Type: Desert ecosystem

Geographic Location: Qinghai-Tibet Plateau (alpine area)

Administrative Location: Dingjie, Dingri, Nielamu, Jilong

Size (Hectare): 3,381,000

Established: 1988

Protected Plants and Animals: Forest, wetland, *Uncia uncia* (Snow Leopard), extreme altitude mountain ecosystem

Demonstration Focus: Qinghai-Tibet Plateau alpine area forest, wetlands, and extreme altitude mountain ecosystem studies; increase international cooperation and communications

43. Shannxi Foping, National Nature Reserve

Type: Wild animals

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Foping County

Size (Hectare): 29,240

Established: 1978

Protected Plants and Animals: *Ailuopodidae melanoleuca* (Giant Panda), *Rhinopithecus roxellanae* (Golden Monkey), *Budorcas taxicolor* (Takin), *Kingdonia uniflora*, *Taxaceae* (Chinese Yew)

Demonstration Focus: Giant Panda field reintroduction studies; establish Giant Panda field reintroduction scientific research, teaching and practice bases; Giant Panda popular science education programs; sign management and protection agreements; community joint-establishment and co-management patterns; community development demonstration villages; community ecological compensations

44. Shannxi Changqing, National Nature Reserve

Type: Wild animals

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Yang County

Size (Hectare): 29,906

Established: 1994

Protected Plants and Animals: *Ailuopodidae melanoleuca* (Giant Panda) and forest ecosystem

Demonstration Focus: Core zone' purchase of lands; Giant Panda habitat restoration studies; establish field education areas; sign management and protection agreements; community joint-establishment and co-management patterns; community development demonstration villages; community ecological compensations; resource utilization patterns

45. Gansu Baishuijiang, National Nature Reserve

Type: Wild animals

Geographic Location: Middle South China (mountain hilly area in western part of region)

Administrative Location: Wen County

Size (Hectare): 213,800

Established: 1978

China Protected Areas Leadership Alliance Project

Strengthening Leadership Capacity for Effective Management of China's Protected Areas

Protected Plants and Animals: *Ailuropodidae melanoleuca* (Giant Panda), *Davidia involuclata* (Dove Tree)

Demonstration Focus: Purchase of lands; Giant Panda habitat restoration studies; establish Giant Panda scientific research and teaching and practice bases; conduct Giant Panda surveys; sign management and protection agreements; community joint-establishment and co-management patterns; community development village programs; community ecological compensation programs

46. Gansu Lianhua Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Southwest China (mountain gorge area)

Administrative Location: Kangle County

Size (Hectare): 12,600

Established: 1983

Protected Plants and Animals: Animals and plants, forest

Demonstration Focus: Southwest China mountain gorge area and forest ecosystem studies; establish field education areas; sign management and protection agreements; community joint-establishment and co-management patterns; community development demonstration villages

47. Qinghai Qinghai Lake, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: Qinghai-Tibet Plateau (alpine area)

Administrative Location: Gonghe, Gangcha, Haiyan

Size (Hectare): 495,200

Established: 1975

Protected Plants and Animals: *Grus nigricollis* (Black-necked Crane)

Demonstration Focus: Plateau lake wetland studies; Black-necked Crane, Przewalski's Gazelle, and other key wild animal protection and rescue studies; conduct epidemic source surveys; increase international cooperation and communications; conduct popular bird science education; ecotourism management

48. Qinhai Hoh Xil, National Nature Reserve

Type: Desert ecosystem

Geographic Location: Qinghai-Tibet Plateau (alpine area)

Administrative Location: Zhiduo County

Size (Hectare): 4,500,000

Established: 1995

Protected Plants and Animals: *Pantholops hodgsoni* (Tibetan Antelope), *Bos mutus* (Wild Yak)

Demonstration Focus: Desert ecosystem protection management; Tibetan antelope, protection and rescue studies; increase international cooperation and communications; joined International Man and Biosphere Reserve Network

49. Ningxia Helan Mountain, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Mongolia-Xinjiang Plateau (desert area)

Administrative Location: Yinchuan City

Size (Hectare): 157,800

Established: 1958

Protected Plants and Animals: *Tetraena mongolica Maxim.* (Nongolian Tetraena), *Baliospermum montanum*, *Ephedra*, *Glycine soja* (Wild Soybean), *Syriga pinnatifolia Hemsl.* (Pinnateleaf Lilac), *Cervus elaphus* (Red Deer), *Gypaetus barbatus* (Bearded Vulture)

Demonstration Focus: *Nongolian Tetraena*, *Baliospermum montanum*, *Ephedra*, Wild Soybean, Pinnateleaf Lilac, and other rare plants studies; establish field education areas; community joint-establishment and co-management patterns; resource utilization patterns

50. Xinjiang Hanasi, National Nature Reserve

Type: Forest ecosystem

Geographic Location: Mongolia-Xinjiang Plateau (desert area)

Administrative Location: Burqin County

Size (Hectare): 220,162

Established: 1980

Protected Plants and Animals: Forest ecosystem

Demonstration Focus: Optimize reserves range and functional regionalization; temperate forest ecosystem studies; increase international cooperation and communications; join the International Man and Biosphere Reserve Network; community joint-establishment and co-management patterns; ecotourism management

51. Xinjiang Bayinbuluk Swan, National Nature Reserve

Type: Wetland ecosystem

Geographic Location: Mongolia-Xinjiang Plateau (desert area)

Administrative Location: Hejing County

Size (Hectare): 148,689

Established: 1980

Protected Plants and Animals: *Cygnus* (Swan) and their living environment

Demonstration Focus: Swan habitat restoration studies; conduct international cooperation and communications; join the Wetlands of International Importance; popular bird science education; sign management and protection agreements; community joint-establishment and co-management patterns; ecotourism management; wetland resource utilization patterns

Training Needs for Protected Area Managers
Identified by the China State Forestry Administration

Module 1: Introduction to Protected Areas

- a. Basic Introduction to Global Biodiversity**
 - biodiversity concept and distribution pattern on Earth
 - values, ecosystem service function and welfare of biodiversity
 - threat to biodiversity
 - biodiversity conservation approaches (in-situ, ex-situ)
 - biodiversity conservation planning in other countries (Conservation by Design and case studies)
- b. Evolution of Protected Areas Framework**
 - Convention on Biological Diversity, Program of Work for Protected Areas, and other conventions relevant to protected areas
 - evolution of protected areas internationally
 - evolution of protected areas in China
- c. Protected Areas Governance**
 - IUCN protected areas categories
 - protected area categories in China
 - types of governance and advantages
 - protected area systems in other countries (USA, New Zealand, Australia, United Kingdom, South Africa, SE Asia)

Module 2: Planning, Governance and Management of Protected Areas

- a. Biodiversity Conservation Planning Approaches**
 - global overview of management planning for protected areas
 - best practice principles for effective management
 - different types of management plans (case studies)
 - Conservation Action Planning overview
 - developing a plan for your protected area (exercise)
- b. Visitor Planning and Management**
 - fundamentals of visitor management
 - tourist management in protected areas
 - ecotourism management principles
 - interpretation systems
 - visitor awareness, education, and public relations
- c. Improving Protected Area Staff Capacity**
 - scope of capacity building
 - competency standards for protected area jobs (case study)
 - capacity assessment methods and results in China
 - strategies to upgrade capacity for protected areas management
- d. Participatory Protected Areas Management**
 - methods of collecting social information relevant to protected areas management
 - appropriate stakeholder involvement in protected areas management
 - case studies

e. Finance and Business Plan for Protected Areas

- financial channel, mechanism and allocation in China
- constraints and shortcomings of current financial mechanism for protected areas in China
- opportunities and strategies for creating sustainable finance for protected areas in China (user fees and other self-financing schemes)
- Financial models and business plans in protected areas of other countries
- Innovative financial channels (Natural Capital, Environmental Fund, debt-for-nature swap)
- developing financial/business plans for protected areas

f. Protected Area Management Effectiveness (PAME)

- significance of PAME
- methods for conducting PAME
- linking PAME to management planning, capacity building, biodiversity monitoring, and finance
- case studies

Module 3: Public Resources Management

a. Strategic Thinking and Decision-Making

- SWOT Analysis (strengths, weaknesses, opportunities, and threats)
- Pareto Principle (80/20 rule)
- Blue Ocean strategy
- The Long Tail strategy

b. Challenges for Global Environment and Sustainable Development

- global climate change
- land use and land coverage dynamics (deforestation)
- sustainable development theory
- creating a system for sustainable development

c. Public Management

- government functions
- governments and markets (what happens when markets fail?)
- government and society (encouraging government and public support for protected areas)
- public governance (standards for management, risk management)

d. Public Leadership

- organization theory
- values, competencies, and support
- leadership and mutual understanding
- leadership and learning organization
- management of human resources (results-oriented)

Year II Participants

China State Forestry Administration Officials

Mr. Yuanhui Hu

Division Director of Multilateral Program, State Forestry Administration

Mr. Yuanhui Hu works as the liaison between international organizations and Chinese governmental agencies such as the World Wildlife Fund, International Union for Conservation of Nature, The Nature Conservancy, and the Regional Community Forestry Training Center for Asia and the Pacific. For the last ten years, he has been deeply involved in many international cooperative activities and projects which focus on natural resources conservation, sustainable utilization and nature reserve management. Mr. Hu began his term at the State Forestry Administration as a Forest Officer responsible for forest logging and developing codes for different forest practice. After eight years in the Department of Forestry Industry, he was transferred to the Department of International Cooperation and later to the International Forestry Cooperation Center in 1998 as a division director in charge of international cooperative issues. Previously, Mr. Hu worked in Weihe Forestry Bureau in Heilongjiang Province as a Forestry Investigator. He specializes in forest inventory, road building, and mechanisms to forest economics, forestry tending and natural resources management.

Ms. Lidan An

Deputy Director, Nature Reserve Management Division, Department of Wildlife Conservation and Nature Reserve Management, State Forestry Administration

Ms. Lidan An has served as the Deputy Director of the Nature Reserve Management Division, Department of Wildlife Conservation and Nature Reserve Management, State Forestry Administration since 2001. With more than ten years of experience in the nature reserve management sector, Ms. An has been responsible for the Biodiversity Convention—the nomination of forestry national nature reserve each year—as well overseeing the construction of nature reserve infrastructure and managing its effectiveness. Ms. An has a master's degree.

The Department of Wildlife Conservation and Reserve Management is an internal institution of the State Forestry Administration. It is responsible for the policy and regulation of wild flora and fauna conservation and guiding the management of nationwide forestry nature reserves.

Ms. Yangwu Zhang

Senior Planner, Academy of Assessment and Planning, State Forestry Administration

Ms. Yangwu Zhang began working for the Academy of Forestry Inventory and Planning of State Forestry Administration as an Engineer in the Wetland and Wildlife Monitoring Center in 1996. Responsible for wetland conservation, restoration and planning for nature reserves, Ms. Zhang organized the First National Wetlands Inventory, drafted the China National Wetland Conservation Action Plan and National Wetland Conservation Program, and finished more than 15 master plans of nature reserves. At present, she is engaged in drafting demonstration plans for the National Nature Reserves in China. Ms. Zhang holds a master's degree.

Established in 1954 under the direct jurisdiction of the State Forestry Administration, the Academy of Forestry Inventory and Planning is responsible for forest inventory, planning and design; monitoring of forest resources, wild fauna and flora, wetlands, and desertification; satellite forest fire monitoring; and forestry information management.

Mr. Weijie Liu

Director of Division, Wildlife Conservation Division, Shanxi Forestry Department

As Director of Wildlife Conservation Division, Mr. Weijie Liu organizes and develops Nature Reserve Development and Wetland Protection Planning in Shanxi Province. He also organizes the comprehensive survey in Lishan National Nature Reserve and oversees the development of ecotourism planning for three national nature reserves, including Pangquangou National Nature Reserve. He has contributed to the development of master plans for 15 provincial nature reserves and helped 12 provincial nature reserves establish their organizations. Before joining the Wildlife Conservation Division in Shanxi Forestry Department in 2004, Mr. Liu served in the Personnel

Department of Shanxi Forestry Department, Taiyueshan National Forestry Management Bureau. Mr. Liu graduated from Shanxi Forestry School with a master's degree.

The Wildlife Conservation Division of Shanxi Forestry Department is responsible for wildlife conservation, nature reserve establishment and management, wildlife diseases monitoring and control, and wetland protection. There are 45 nature reserves in Shanxi Province with a total area of 1,150,000 hectares.

Ms. Xiaolin Zou

Deputy Director of Division, Wildlife Conservation Center of Inner Mongolia

Ms. Xiaolin Zhou was appointed as the Deputy Director of Wildlife Conservation Center of Inner Mongolia in 2008. She contributed to the development of the Wildlife Conservation of Inner Mongolia by promoting nature reserve management, monitoring, promotion and wildlife rescue. Under the efforts of the Wildlife Conservation Center of Inner Mongolia, many national nature reserves in Mongolia established their own management organizations, built or renovated office buildings, protection stations, and boundary marks.

Established in June 2000, the Wildlife Conservation Center of Inner Mongolia is responsible for enacting policies to facilitate wildlife conservation. A total of 130 nature reserves have been established focusing on forest, wetland, wildlife, and desert conservation. These reserves cover an area of 9,156,000 hectares, or approximately 7.74 percent of the total land area of Inner Mongolia.

Mr. Zongqiang Fan

Director, Conservation Division of Chongqing Forestry Bureau

Mr. Zongqiang Fan has 29 years of experience working for the Conservation Division of Chongqing Forestry Bureau. The Bureau is primarily in charge of forest, wildlife and wetland nature reserves management. There are 46 nature reserves covering a total of 830,000 hectares, comprising approximately 10.1 percent of the total land area of Chongqing City.

Mr. Changhai Yang

Senior Planner, Wildlife Conservation Division, Hebei Forestry Department

As Senior Planner, Mr. Changhai Yang is responsible for the management, capacity building, and implementation of conservation activities in 49 nature reserves and 177 mini reserves in Hubei Province. In addition, Mr. Yang recently participated in the establishment of Hubei Wetland Conservation Fund and worked with the World Wildlife Fund Wuhan Office to conduct a series of wetland conservation activities. Mr. Yang has supervised forest resource cultivation, conservation and management, forest park construction and the ecotourism development of 150 state-owned forest farms, and was responsible for the stewardship of the Taizishan Forest Farm, the Hubei State-Owned Forestry Management Bureau, and the Forestry Police of Hubei Province and Forest Resources Management Bureau responsible for forest resource and forest land tenure management. Mr. Yang graduated from the Hubei Forestry School.

Mr. Chongyu Ma

Director of Division, Wildlife Management Bureau, Gansu Forestry Bureau

Mr. Chongyu Ma has served as Director of Division supervising the Wildlife Management Bureau of Gansu Forestry Bureau since 1994. Under his leadership, the total land mass of the nature reserves in Gansu Province has reached 9 million hectares, about 21 percent of the total land area in the province. Through his work, Mr. Ma strengthened international cooperation in biodiversity conservation and nature reserve management.

The Wildlife Management Bureau is the general office responsible for nature reserves stewardship, wildlife and wetland preservation, and endangered species import and export management in Gansu Province.

Mr. Jingyu Gao

Director of Division, Wildlife Conservation and Nature Reserve Administration Bureau, Qinghai Forestry Bureau

Mr. Jingyu Gao has managed the wildlife conservation, wetland preservation and nature reserve work in Qinghai Forestry Bureau since 2003. He has streamlined conservation strategies for wildlife conservation and nature reserve management by emphasizing the establishment of a wildlife and wetland resources management and enforcement

system, and promoted endangered species habitat conservation. This conservation helps preserve and expand the protected areas network to provide a safe environment for the Tibetan antelope and the Przewalski's gazelle in Qinghai Province.

Since its establishment in 1997, the Wildlife Conservation and Nature Reserve Administration Bureau created rules and regulations to conserve, manage, and supervise terrestrial wildlife conservation, monitor and conserve wildlife resources, and utilize them efficiently. The Bureau is also responsible for the development and management of the Nature Reserve based on the Reserve's national and provincial planning and zoning area.

Mr. Lang Liu
Director of Division, Wildlife Conservation Division, Guizhou Forestry Department

As Division Director, Mr. Lang Liu is responsible for the planning, establishment and construction work for new nature reserves in Guizhou Province. Mr. Liu has worked in the Guizhou Forestry Department for many years, starting as Division Director of Developing Planning and Fund Management in the Guizhou Forestry Administration.

The Wildlife Conservation Division is primarily responsible for organizing and guiding wildlife resource comprehensive investigations, conservation, management and exploitation; identifying annual wildlife resources consumption quotas and monitoring implementation effects; instructing the development and management of varied nature reserves and advising; and monitoring the trade of endangered species and national-level protected species.

Mr. Lishun Wang
Deputy Director of Division, Wildlife Conservation Division, Henan Forestry Department

Mr. Lishun Wang oversees the nature reserve and forest park management in Henan. He participates in environment impact assessments to ensure negative impacts caused by construction are minimized or eliminated. In addition, by collaborating with various organizations he has developed a wetland system master plan—approved by the State Forestry Administration—to establish a national wetland system in Henan Province. Mr. Wang frequently invites international and domestic experts to the nature reserves to conduct training and provide technical guidance. Prior to his current post with the Wildlife Conservation Division of Henan Forestry Department, Mr. Wang worked at the Henan Forestry Investigation and Planning Academy, the Henan Wildlife Rescue Center, the Henan Academy of Forestry, and the Henan Economic Forest and Forest Seedling Work Station. Mr. Wang graduated from Luoyang Forestry School in Henan Province.

The Wildlife Conservation Division in Henan takes a leading role in nature reserve management, wildlife conservation and wildlife disease control. There are currently 25 nature reserves covering 113 million hectares of terrestrial land area. The population size of the Rhesus monkey in the Taihang Mountain Ranges has increased from a population of 1,300 in 1997 to 3,000 in 2008. The Yellow River Wetland has become the breeding site for wintering sites for the Tundra swan.

Mr. Xuyu Yang
Deputy Director of Division, Wildlife Resource Investigation and Conservation Center, Sichuan Forestry Department

Mr. Xuyu Yang was appointed Deputy Director of the Wildlife Resources Investigation and Conservation Center of Sichuan Forestry Department in 2002. He manages the nature reserve and oversees the giant panda conservation. Mr. Yang organized a field survey on the wild giant panda and black bear in Sichuan Province, guided the development of giant panda conservation project, planned the captive giant panda wild release and monitoring project, and contributed to the development of ecotourism planning techniques to nature reserve management. In addition, Mr. Yang has published 100 technical articles and reports promoting giant panda conservation and nature reserve management in Sichuan. Prior to this, Mr. Wang learned German at the University of International Business and Economics where he was later responsible for the nature reserve cooperation project supported by GTZ in the GTZ Chengdu Office and GOPA Chengdu Office. Mr. Wang holds a master's degree.

The Wildlife Resources Investigation and Conservation Center was established in 1984 and is responsible for natural resources investigations, conducting baseline surveys in nature reserves, implementing biodiversity monitoring, and

developing a master plan for nature reserves and wildlife identification. The Center is currently leading the restoration of the natural habitat damaged by the 2008 Wenchuan Earthquake and regenerating the giant panda population in Small Xiangling Mountain Ranges by releasing captive giant pandas.

Ms. Yuying Zhao
Deputy Director General, Shanxi Forestry Department

As the Deputy Director General, Ms. Yuying Zhao supervises the Wildlife Conservation Division and the Nature Reserve and Wildlife Protection Station of Shaanxi Province. Under Ms. Zhao's supervision, the nature reserve was promoted to the national Level One; five wetland nature reserves were legally established; the giant panda and habitat monitoring project was successfully implemented by the nature reserve network composed by 20 nature reserves distributing in Qinling Mountain Ranges; 26 captive crested ibis were successfully released in the field; and artificial reproductions of giant panda and crested ibis were produced.

The Shaanxi Forestry Department manages a wide range of activities, from forestry conservation to sustainable exploitation. The Department governs 42 nature reserves—covering a total of 967,000 hectares—which provide a safe habitat for many rare and endangered species such as the giant panda and the crested ibis.

National Nature Reserve Managers

Mr. Shiguang Li
Director, Shanxi Pangquangou National Nature Reserve

Mr. Shiguang Li has overseen the Shanxi Pangquangou National Nature Reserve Management Authority since 1995. Emphasizing natural source preservation, promoting environmental education and ecotourism, Mr. Li works to establish Pangquangou National Nature Reserve as a first-class reserve in China with well-equipped facilities, and a well-managed and capable management team. Mr. Shiguang Li graduated from Northeastern Forestry University.

Shanxi Pangquangou National Nature Reserve

Established in 1980, the Shanxi Pangquangou National Nature Reserve was promoted to a model national nature reserve in 1986. Nicknamed the “Green Pearl of the Loess Plateau,” the reserve covers 10,443 hectares and was established to protect rare birds, such as the brown-eared pheasant, and the *Larix principis-rupprechtii* forest. Over 189 bird species, 32 mammal species, 17 reptile and amphibian species, and 1000 insect species have been recorded in the reserve. The reserve established four protection stations and three monitoring stations to facilitate biodiversity conservation. In addition, a series of facilities have been established to improve administration. In 2005, the reserve launched the edible fungus studies to help local communities to explore an alternative livelihood and decrease their dependence on natural resources within and around the reserve.

Mr. Baohong Zhang
Director, Inner Mongolia Helan Mountain National Nature Reserve

Mr. Baohong Zhang has worked in the Inner Mongolia National Nature Reserve since 1987. Prior to his current position as Director, Mr. Zhang supervised the Land and Resources Bureau of Alashan Prefecture for two years. As a Senior Natural Resource Manager and Researcher, Mr. Zhang published a series of articles on the spruce forest, including articles that explore the forest structure functions in preserving water and soil, and how tree thinning influencing forest growth. In 1997, Mr. Zhang served Deputy Director of Inner Mongolia Helan Mountain National Nature Reserve with a certificate of forestry engineering, and was promoted to Director General and Advanced Forestry Engineer of the Inner Mongolia Helan Mountain National Nature Reserve in 2006. He graduated from the Inner Mongolia Forestry College in 1987.

Inner Mongolia Helan Mountain National Nature Reserve

The Inner Mongolia Helan Mountain National Nature Reserve was established to protect the Qinghai spruce forest that is endemic to China. Home to the largest patch of natural secondary forest in Inner Mongolia Province in China, the Inner Mongolia Helan Mountain National Nature Reserve covers an area of 88,500 hectares. The reserve is a renowned natural gene pool due to rich plant and animal biodiversity. Many important plants and animals were first discovered and recorded in the reserve, indicating the significant and unique role in biodiversity conservation. In 1995 the reserve became a member of the Man and Biosphere Network.

Mr. Wanpeng Wang
Secretary, Henan Baotianman National Nature Reserve

Mr. Wanpeng Wang joined the Henan Baotianman National Nature Reserve in 2006. As Secretary, he has consolidated the management of Baotianman National Nature Reserve to improve conservation stewardship, promote environmental education, and involve the local community in conservation to improve their welfare. The reserve established a monitoring station to track the forest ecosystem, hydrological regime, meteorological regime, and biodiversity evolution in this region. This monitoring system has been integrated into the national forest ecosystem-monitoring framework proposed by State Forestry Administration. In addition, the reserve established a long-term cooperative partnership with the Thousand Islands Frontenac Arch Biosphere Reserve in conservation research, research results application, and ecotourism management knowledge sharing. Under the leadership of Mr. Wang, the reserve incorporates ecotourism practices focused on biodiversity conservation. Ecotourism also increases revenue that helps support biodiversity conservation in the reserve and benefits the local community that depends on the natural resources in the region.

Henan Baotianman National Nature Reserve

The oldest nature reserve in Henan Province, the Baotianman National Nature Reserve was designated as a national nature reserve in 1988. Located on the western slope of Qinling Mountain with an area of 9,304 hectares—the geographical frontier area separating the temperate and subtropical zones in China—the transitional features make the reserve unique in local climate and flora and fauna. Many key species, both plant and animal, can be found in the Baotianman National Nature Reserve including 73 percent of the various plant species in the entire Henan Province. The reserve was named a UNESCO biosphere reserve in 2001.

Mr. Jiwu Wang
Deputy Director, Chongqing Jinyun Mountain National Nature Reserve

Mr. Jiwu Wang joined the Jinyun Mountain National Nature Reserve in 2006 to oversee conservation work. From 1985 to 2006, Mr. Wang undertook research work at the Chongqing Forestry Academy, leading several programs which won many awards. He has obtained his professional title as a Forestry Technician and Senior Forestry Technician. He graduated from the Southwest Forestry College.

Chongqing Jinyun Mountain National Nature Reserve

The Chongqing Jinyun Mountain National Nature Reserve is a protected area just outside the Beipei District, one of the districts of Chongqing City. Established in 1979 to protect the subtropical evergreen broadleaved forest and landscapes in the Beipei District, the reserve is a forest ecosystem (7,600 hectares) located in the mountainous region where the elevation ranges from 350 meters to 951.5 meters. The nature reserve comprises the natural ecosystem formed by the subtropical forest vegetation and their living environment. Work activities include sign management and protection agreements, community joint-establishment and co-management patterns, community development demonstration villages, community ecological compensations, ecotourism management, and resources utilization patterns. The Chongqing Jinyun Mountain National Nature Reserve plays an important role in water and soil protection by providing clean air for Chongqing City.

Mr. Debin Jiang
Director, Guangxi Mao'er Mountain National Nature Reserve

Mr. Debin Jiang brings 15 years of forest management experience in wildlife conservation to his role at the Guangxi Mao'er Mountain National Nature Reserve. Mr. Jiang conducts conservation research, builds public awareness, manages ecotourism, and consolidates infrastructure development by working together with other staff members. He has served as director of the Mao'er Mountain National Nature Reserve since 1998.

Guangxi Mao'er Mountain National Nature Reserve

The Guangxi Mao'er Mountain is a forest ecosystem located in Eastern and Central China. Founded in 1976, the 17,009 hectare reserve was dedicated to provide a safe refuge for its subtropical evergreen broadleaved forest and many associated animals. Protected plants and animals include the *Taxus chinensis var. mairei* (Maire Yew), *Ginkgo biloba* (Maidenhair Tree), *Taxaceae* (Chinese Yew), *Neofelis nebulosa* (Clouded Leopard), *Panthera pardus*

(Leopard), *Python molurus* (Boa), and the *Ursus thibetanus* (Asiatic Black Bear). The reserves focuses on the preservation of these species, rare animal and plant habit and protection studies, establishing field education spots, identifying resource utilization patterns, community joint-establishment and co-management practices, community development and education, and ecotourism management.

Mr. Huali Huang

Director, Management Bureau, Gansu Baishuijiang National Nature Reserve

As Senior Engineer and Director of the Management Bureau of Gansu Baishuijiang National Nature Reserve, Mr. Huali Huang focuses on panda and forest ecological system conservation and research. He has directed and assisted more than 20 field studies and research projects, three of which won second place in the Science Award of Gansu Province. He served as Chief Editor of *Pandas of Baishuijiang*, and edited five other publications including, *A Comprehensive Research Report on Baishuijiang National Nature Reserve*.

Gansu Baishuijiang National Nature Reserve

Established in 1978 with an area of 223,671 hectares, the Gansu Baishuijiang National Nature Reserve conservation targets include pandas, dove trees, and other rare wildlife animals and plants and their surrounding ecological system. The whole preservation zone is in the shape of a ribbon, with 110 kilometers long from the east to the west and 20 kilometers wide from the south to the north. There are 2,160 species of higher plants and 67 rare, precious and endangered species under state protection, including the dove tree, ginkgo, metasequoia, *Taxus chinensis*, and masson pine. The vegetation can be vertically divided into five zones from the low elevation to high, evergreen broad-leaved mixed forests, deciduous broad-leaved forests, coniferous and broad-leaved mixed forests, coniferous forests and highland shrubbery or grassy marshland. The mild temperature, plenty rain, luxuriant forests and good ecological environment prove to be an ideal place for the growing of bamboo—the giant pandas favorite food—that consequently guarantee that giant pandas live and multiply well here. The nature reserve is the largest of the three panda reserve areas directly affiliated with the State Forestry Administration, with the panda population steadily increasing since the establishment of the reserve. The Gansu Baishuijiang National Nature Reserve joined the Biosphere of China in 1993 and joined the UNESCO Biosphere in 2000.

Mr. Shengli Liu

Deputy Director, Sichuan Wolong National Nature Reserve

Mr. Shengli Liu has over fifteen years of experience working with the Sichuan Wolong National Nature Reserve. Appointed Deputy Director of the reserve in 2006, Mr. Liu oversees the conservation of forest resources, natural resource conservation, public safety, and forest fire prevention activities. Under Mr. Liu's supervision, the reserve implemented two national forest conservation programs—the Natural Forest Conservation Program and Grain-to-Green Program—and established the giant panda and wildlife monitoring and forest guarding systems. During his tenure, illegal logging and poaching has declined significantly and no forest fires have taken place. Prior to his current appointment, Mr. Liu worked and led multiple departments in the reserve including the department of transportation, human resources, and the labor union. Mr. Shengli Liu holds a bachelor's degree in Science.

Sichuan Wolong National Nature Reserve

Situated along the western border of the Sichuan Basin and occupying an area of 200,000 hectares, the Sichuan Wolong National Nature Reserve is home to the largest giant panda population in the world. Established in 1963 as a key conservation site for pandas, the reserve encompasses part of the Wolong-Siguniang Mountain-Jiajin Mountain Range panda habitat. The favorable climate and hydrothermal conditions, along with an abundance of bamboo in the reserve, make it the most densely-populated and intact region for pandas. It is popularly known as the cradle or kingdom of pandas. Approximately 150 wild pandas, composing about 10 percent of the remaining wild panda population in the world, are distributed in the reserve. As one of the 25 global biodiversity hotspots, the reserve is also home to thousands of plants, over 50 species of animals such as red pandas, golden pheasants, white-eared pheasants, golden monkeys and musk deer, and 300 species of birds. The reserve contains primitive forests and original ecosystems, and serves as a rare gene bank, with over 4,000 species of plants. As the first reserve to establish a research center for giant pandas, zoologists from China and around the world have come to study giant pandas here. It was promoted to a national nature reserve in 1990. Due to its biological and geographical significance, the United Nations identified the Sichuan Wolong National Nature Reserve as a World Heritage Site in 2006.

Mr. Shiwei Jiang
Deputy Director, Sichuan Wanglang National Nature Reserve

Mr. Shiwei Jiang has served as Deputy Director of the Sichuan Wanglang National Nature Reserve since 1996, and received his commission as conservation technician of the reserve in 2005. He oversees various activities at the reserve including patrolling the grounds, monitoring poaching and illegal logging, to managing ecotourism projects. Under Mr. Jiang's leadership, the Sichuan Wanglang National Nature Reserve received international recognition from international organizations, governmental agencies, and experts in conservation by winning the Outstanding Nature Reserve Award in 1999, 2002 and 2006. Mr. Jiang participated in many international and domestic conservation meetings, trainings and study tours. He participated in a series of ecotourism planning activities such as participatory ecotourism planning, and local community-based ecotourism planning in Monigou. He has published several articles addressing ecotourism and the local community in reserves. Mr. Jiang majored in nature reserve resources management at the Huang Mountain Forestry School.

Sichuan Wanglang National Nature Reserve

The Wanglang National Nature Reserve is one of the giant panda reserves in China. Established in 1965 and totaling to 32,297 hectares, the reserve was promoted to national reserve status in 2002. The reserve is a forest ecosystem located in the center of the Minshan Ranges—the western part of middle south China—one of the hotspots of biodiversity in the world. The Minshan Ranges are famous for their intact and rare biodiversity. Created to provide a safe home for giant panda and associated wildlife, the primary focus of the nature reserve is to establish volunteer service and adoption systems; giant panda and golden monkey protection and habitat restoration studies; scientific research and teaching and practice bases; conduct international cooperation and communications; and promote ecotourism management. Protected plants and animals include the *Ailuropodidae melanoleuca* (Giant Panda), *Rhinopithecus roxellanae* (Golden Monkey), *Budorcas taxicolor* (Takin), and their forest ecosystem. The surrounding reserves, Jiuzhaigou, Huanglongsi, Wujiao, Longdishui comprise the network of nature reserves for the population of giant panda in the Minshan Ranges.

Mr. Jingcheng Ran
Director, Guizhou Maolan National Nature Reserve

Mr. Jingcheng Ran has served as Project Director for nine research projects funded by the MacArthur Foundation, the Wildlife Research Youth Foundation of Southwest China, the Association of China Wildlife Protection Foundation, the Karst Dynamic Opening Laboratory Fund, and the Guizhou Natural Science and Technology Fund respectively. In addition, he participated in other projects including those with the National Natural Sciences Foundation of China, the International Geological Correlation Program, the International Union for Conservation of Nature, and the China Ministry of Forestry Fund. In addition, the findings of several of his research projects have been published in more than 40 national and international journals. Mr. Ran received his master's degree from the Department of Wildlife at the Northeast Forestry University, Harbin.

Guizhou Maolan National Nature Reserve

The Guizhou Maolan National Nature Reserve is located in Libo County in the southern part of Guizhou, in the middle of south China. This mountainous area—with altitudes reaching 1,078.6 meters—was identified as a national nature reserve in 1988. The reserve is 21,285 hectares with 14 villages of 6 towns in the area. The unusual subtropical vegetation in the reserve is mostly comprised of evergreen broad-leaved and conifer mixed forest. Protected plants and animals include the Karst forest ecosystem and other rare wild animals and plants. The reserve is dedicated to Karst forest ecosystem studies, conduct stationary monitoring, establish field education spots, and ecotourism management. Average temperatures range from 5.2 Celsius (January) to 23.5 Celsius (July) with the annual precipitation rate at 1,752.5 millimeters. As the Guizhou Maolan National Nature Reserve has the Karst virgin forest in this subtropical region, the reserve joined the UNESCO biosphere in 1996.

Mr. Xiangzu Ma
Director, Shaanxi Changqing National Nature Reserve

As Director of the Shaanxi Changqing National Nature Reserve, Mr. Xiangzu Ma oversees all forestry and nature reserve management activities. Since he took over the stewardship of the reserve, Mr. Ma has promoted an integrated management approach which focuses on scientific research as well as field conservation. The reserve invites experts to give technical support on a variety of issues—including giant panda habitat monitoring work and the implementation of conservation measures—based on scientific research.

Shaanxi Changqing National Nature Reserve

Designated by the Chinese State Council in 1995, the Shaanxi Changqing Nature Reserve was established to protect dense forest and wildlife, and provide a safe and suitable habitat for the giant panda and other key associated animals and plants. Located in the southern slope of Qinling Mountains—the watershed between North China and South China—the reserve encompasses 30,000 hectares. There are seven National Class 1 protected animals in the reserve, including the giant panda—considered “the living fossil”—the golden monkey, takin, and the crested ibis. Located in a region with a relatively stable giant panda population, the reserve is gaining domestic and international recognition as the perfect place for wildlife observation and scientific study. Over the past years, the giant panda’s habitat has greatly improved and the population in the wild has increased dramatically. The reserve promotes ecotourism via the Home-Stay Project. Created to improve the local community’s livelihood, the Home-Stay Project strengthens the relationship between the community and nature reserve. In 2001, the reserve passed the Green Globe 21 certification and joined the China Biosphere Reserves Network.

Mr. Xiusheng Liu
Deputy Director, Gansu Lianhua Mountain National Nature Reserve

Mr. Xiusheng Liu has served the Gansu Lianhua Mountain National Nature Reserve for over ten years. As Deputy Director, Mr. Liu supervises biodiversity conservation, patrolling, monitoring, environmental promotion, applied conservation science, and the co-management of the nature reserve. His conservation efforts have enhanced both biodiversity conservation and the livelihood of local communities earning domestic and international recognition. Mr. Liu holds a master’s degree in science.

Gansu Lianhua Mountain National Nature Reserve

The Gansu Lianhua Mountain National Nature Reserve was formally designated as a national nature reserve in 2003 to protect forest ecosystem, deer, Chinese Hazel grouse, 50 species of butterflies belonging to 9 families, and other rare and endangered plants and animals. The reserve encompasses 11,691 hectares.

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Classroom Training
Protected Areas Management College of Beijing Forestry University
4 – 9 May 2009

Monday 4 May

Arrival and registration

Tuesday 5 May

Global Biodiversity, Environmental Challenges, and Sustainable Development

Dr. Yanhua Wang, Tshinghua University

Basic introduction of global biodiversity and threats
Global environmental challenges
Land use and coverage changes
Sustainable development

Strategic Thinking and Public Management

Public management concepts and characteristics
SWOT analysis
80-20 analysis
Blue Ocean strategy
Long-tail strategy
How to adapt these theories to protected areas management

Wednesday 6 May

Biodiversity Conservation Planning Methodologies

Dr. Dachang Liu, Director of Project Monitoring and Evaluation, The Nature Conservancy China Program

Significance of planning in biodiversity conservation and protected areas
Categories of planning and their roles
Management planning for protected areas/nature reserve
Conservation Action Planning (CAP)
Conservation planning case studies (integrated with CAP introduction)

Overview of Biodiversity Conservation Organizations and their Financial Mechanisms

Dr. Guangchun Lei, Protected Areas Management College of Beijing Forestry University

CBD, PoW, climate change negotiation and other relevant international treaties related to biodiversity and protected areas
Introduction of organizations focusing on biodiversity conservation internationally
Fundraising channels and introduction to some foundations

Thursday 7 May

Overview of Protected Areas System in USA

Dr. Guangzhi Yu, China Protected Areas Strategies Project, The Nature Conservancy China Program

Categories of protected areas in USA and their administrative structures (National Park System, National Wildlife Refuge System, National Forest System, Wilderness and private preserves)

Finance mechanism for protected areas in USA
Laws, regulations and policy relevant to protected areas in USA
Franchise, permit and law enforcement in USA protected areas
Building support for protected areas in USA

Conservation Easement and Ecological Compensation Mechanism for Conservation

Dr. Yali Wen, College of Management and Economics of Beijing Forestry University

Conservation easement concept and its implication for biodiversity conservation in China
Natural Capital, ecological compensation mechanism and its application
Challenges and strategies of applying innovative conservation methodologies to consolidate protected areas management in China

Friday 8 May

Ecotourism Planning and Management

Dr. Guihua Yang, Yunnan University

Ecotourism concept and significance in protected areas management
Ecotourism planning development
Tourists/visitors management
Interpretation in protected areas
Conservation awareness, environmental education and public management

Measuring and Monitoring Biodiversity in Protected Areas

Mr. Yongcheng Long, Senior Conservationist, The Nature Conservancy China Program

Significance of measuring and monitoring biodiversity
Purposes of biodiversity measuring and monitoring (threat-oriented, conservation efforts-driven)
Frequently used biodiversity measuring and monitoring methodologies
How to design measuring and monitoring planning/manual
Case studies introduction

Saturday 9 May

Overview of The Nature Conservancy

Dr. Guangzhi Yu, China Protected Areas Strategies Project, The Nature Conservancy China Program

The Nature Conservancy values, vision and history
Core conservation methodologies utilized by The Nature Conservancy
Work sites, private protected areas system, and conservation strategies

Overview
Field Study and Collaborative Learning Component
10 – 31 May 2009

Beijing, China

The China Protected Areas Leadership Alliance Project's Year II program includes two weeks of field study throughout the United States and one week of collaborative learning at the East-West Center in Honolulu, Hawaii. These activities immediately follow one week of intensive classroom training at Beijing Forestry University. The curriculum will be taught by selected faculty and experts from top universities in Beijing, The Nature Conservancy China Program, and other key organizations. Through a series of presentations, case studies, and discussion, the curriculum will include a global overview of conservation management practices; critical issues such as protected area design and management, impacts of climate change and other key threats to biodiversity; ecotourism; environmental interpretation; protected area law and legislation, regulation, and enforcement; and public policy and finance.

United States

Washington, D.C.

The United States field study begins with a brief two-day visit to Washington, D.C. where the Chinese nature reserve managers and State Forestry Administration officials will meet with top officials from The Nature Conservancy (TNC) Worldwide Office to discuss the organization's core strategy to preserving the planet's biodiversity by protecting natural habitats. This strategy includes a science-based planning process, called "Conservation by Design" that identifies the highest priority places around the world in need of conservation. The group will hear from various TNC representatives about successful efforts to mobilize conservation initiatives that require close working relationships with local and indigenous communities, businesses, governments, and other organizations.

While in D.C., the participants will also participate in a hands-on "social marketing" workshop conducted by RARE~Inspiring Conservation that focuses on establishing strategic partnerships and engaging communities in land conservation projects. They will become familiar with the Rare Pride Campaign China Program, which was launched in 2008.

State of New York

The second stop on the U.S. field study is the Adirondacks State Park in the State of New York, the largest, publicly protected area in the contiguous U.S., created in 1892 by the State of New York. The participants will spend three days learning about successful conservation management practices that deal with complex natural area issues and ongoing challenges that are similar to those in China. These include population pressures (increasing residential development and recreational use), watershed protection, acid rain, climate change, invasive species, incompatible forestry practices, and loss of traditional industries that threaten the economic viability of many communities within the park. The group will meet with key officials and representatives from a broad range of government and non-governmental organizations and community groups dedicated to protecting the open-space resources of the park and sustaining the natural and human communities in the region.

State of Montana

From the east coast, the participants fly to the State of Montana where they will spend two days hosted by the *American Prairie Foundation* (APF), a non-profit, Montana-based land trust. The APF manages a prairie-based wildlife reserve in northeastern Montana near Malta that was established in 2004 through private land acquisition. The reserve is adjacent to public lands already managed for wildlife. The participants will tour the reserve with wildlife biologists and other scientists, staying overnight in yurts on the prairie. They will also learn from APF staff how the Foundation works with the local community to develop education programs and

science research in the region. As demonstrated elsewhere in the American West, restoration of large natural areas can help local communities attract and retain people.

While on the prairie, the participants will engage in a hands-on work experience conducted by the staff from the *World Wildlife Fund (WWF) Great Northern Plains Program*. In partnership with the APF, the WWF is working to create new conservation areas as well as encourage biodiversity-friendly farming and grazing practices on the American Prairie Reserve.

Before leaving Montana, the group will spend one day visiting two wildlife refuges. The *Bowdoin National Wildlife Refuge* is managed by the U.S. Fish and Wildlife Service. The 15,550-acre refuge was established in 1936 for migratory birds, providing thousands of waterfowl and shorebirds a safe resting, feeding, and breeding wetlands habitat.

The *Charles M. Russell National Wildlife Refuge* is the largest wildlife refuge in Montana (also established in 1936 and managed by the U.S. Fish and Wildlife Service). The refuge—a 1.1 million-acre expanse of native prairies, forested coulees, river bottoms, and badlands—includes the 245,000-acre Fort Peck Reservoir. Within the boundaries of the refuge is a 20,000-acre “refuge-within-a-refuge,” the *UL Bend National Wildlife Refuge*—a designated wilderness area. This highly protected, remote region is the site of an ongoing effort to rescue one of North America’s most endangered animals, the black-footed ferret.

State of Wyoming

Driving south from Montana, the participants will arrive at Yellowstone National Park for a four day visit to the world’s first national park (established in 1916) and a designated World Heritage Site. As the oldest and most heavily visited national park in the U.S., Yellowstone has been a testing ground for new concepts and a data center for research into the inexact science of preserving wild lands for public use. The group will meet with the park superintendent and her staff to discuss a wide range of issues related to the effective management of Yellowstone including park staffing, funding, and concessions; endangered and invasive species; environment and climate change; and fire ecology and management. In addition to the meetings, the participants will spend substantial time in the field, visiting areas throughout the park to gain a better understanding of the many challenges that the park faces in preserving its natural beauty and accommodating millions of visitors each year. They will also take several “back of the house” tours of park infrastructure, such as water, electric, and sanitation systems, vehicle and machine maintenance yards, food and laundry service facilities, and other systems critical to the smooth day-to-day operation of the park.

In addition, the participants will learn about the park’s gray wolf reintroduction program. Prior to the restoration project which began in 1995, the wolf had been missing from the Greater Yellowstone Ecosystem for decades. Today it is the most successful wildlife reintroduction program in the country. Data from studies indicate that wolf recovery will likely lead to greater biodiversity within and around Yellowstone National Park as the wolf regains its natural predatory role in the ecosystem. This program has been controversial, primarily due to livestock depredation outside the park boundaries.

The participants will also learn about another progressive program—the park’s wild land fire management plan. Throughout much of the 20th century, park managers viewed fire as a destructive force, but were slowly persuaded by ecologists that fire could be a positive agent of change in many ecosystems.

State of Hawaii

The last stop of the U.S. field study is a five day visit to Honolulu, Hawaii, where the Chinese nature reserve managers and State Forestry Administration officials will engage in collaborative sharing and learning at the East-West Center, reviewing all that they have learned from the classroom study in Beijing and across the U.S. Working with a U.S. National Park expert, the participants will meet in small and large groups to draft team thematic reports and develop key elements of conservation management work plans for their nature reserves. The collaborative sessions will be professionally facilitated and documented for inclusion in a comprehensive written report that will be distributed to all participants, relevant Chinese governmental agencies, and partners.

In addition to the review and planning activities at the East-West Center, the group will participate in a day-long experiential team building and leadership program at Kualoa Ranch. Kualoa Ranch offers a series of educational programs including team building and leadership activities designed to promote awareness and

China Protected Areas Leadership Alliance Project

Strengthening Leadership Capacity for Effective Management of China's Protected Areas

recognition of group dynamics and values and new perspectives on leadership, cooperation, communication, group problem solving and decision-making.

To learn about some of Hawaii's conservation management issues and practices, the participants will visit Hanauma Bay Nature Reserve and meet with the park manager and his staff to discuss the reserve's comprehensive management plan. Established in 1967, it underwent a successful, decade-long protection and preservation effort in the 1990s that re-established its pristine marine ecosystem after years of overuse by more than three million visitors annually that resulted in damaged coral reefs and imbalance of fish species due to overfeeding. Today visitor attendance is strictly regulated and limited to protect the Bay's fragile ecosystems.

The participants will also visit the Hawaii Nature Center, a private non-profit organization that offers education programs for school children, adults, families, and community groups that foster awareness, appreciation and understanding of the natural environment of Hawaii and encourage wise stewardship of the island's ecosystems. The group will meet with the Executive Director of the Nature Center and center volunteers.

**U.S. Field Study Agenda
10 -31 May 2009**

4-9 May Classroom Training, Protected Areas Management College, Beijing Forestry University

Sunday 10 May

6:25 pm **Chinese Delegation Departs Beijing, China for Washington, D.C.**
United Airlines flight #898

7:56 **Arrive Dulles International Airport**
Delegation will be met at International Arrivals by Ms. Meril Fujiki, East-West Center

9:00 Board bus to hotel

10:00 **Check into The Hotel George (3 nights)**

Participants will receive box dinners upon check-in

Monday 11 May

9:00 am Breakfast in Hotel George mezzanine

9:30 **U.S. Field Study Staff Introductions**

Ms. Carol Fox, Director of Strategic Planning & Partnerships, East-West Center
Ms. Meril Fujiki, Seminars Development Coordinator, East-West Seminars
Ms. Mariko Davidson, Project Assistant, East-West Seminars
Dr. Xin Liu, Field Study Translator

10:30 **Board bus for Tour of Washington National Mall Sites**

White House, Lincoln Memorial, Air and Space Museum, U.S. Capital, Supreme Court

1:00 pm Lunch at the Cascade Café, National Gallery of Art

2:30 Board bus to continue tour

3:30 Board bus to return to The Hotel George

Free time

5:30 **Meet in hotel lobby for short walk to Union Station**

6:00 Dinner at America Restaurant

7:30 Walk back to hotel

Tuesday 12 May

7:30 am Breakfast in Hotel George mezzanine

8:45 **Board bus to The Nature Conservancy Worldwide Office**
Arlington, Virginia

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- 9:15 **Welcome Remarks and Introductions**
Ms. Rose Niu, Deputy Managing Director, North Asia Region
- 9:30 Presentations by The Nature Conservancy Worldwide Office Representatives
- Overview of The Nature Conservancy**
Mr. Bradford Northrup, Deputy to the Chief Conservation Programs Officer
- Conservation Easement**
Mr. Michael Dennis, Vice President/Director of Conservation Real Estate
- Global Protected Areas Strategies**
Mr. Randall Curtis, Senior Policy Advisor, International Government Relations
- 11:45 Walk to Hunan Gate Restaurant for lunch
- 1:00 pm Presentations by RARE ~ Inspiring Conservation
- Overview of RARE**
RARE Pride in China
Engaging Communities for Protected Areas
- Ms. Sonita Prussner, Director, Strategic Partnerships
- 5:00 Board bus to Washington, D.C.
- 6:00 Dinner at City Lights of China Restaurant
- 7:15 Board bus to return to hotel

Wednesday 13 May

- 8:30 am Breakfast in Hotel George mezzanine
- 9:30 Bring luggage to lobby to load on bus
- Check out of hotel
- 10:00 **Board bus to Dulles International Airport**
- 12:26 pm **Depart Washington, D.C. for Albany, New York**
United Airlines flight #8088
- 1:47 **Arrive Albany, New York**
- Group will be met at baggage claim by Adirondack Park Agency officials*
Mr. Keith McKeever, Director of Public Relations
Mr. Stephen Erman, Special Assistant for Economic Affairs
Mr. Daniel Spada, Supervisor, Natural Resource and Scientific Services Division
- 3:00 Board bus
- 3:30 Lunch at Popeyes Chicken

- 4:00 **Scenic drive to Lake Placid, New York** (*3 hour drive time*)
- Presentation
- Working Communities in a Protected Area Context**
 Mr. Keith McKeever, Director of Public Relations, Adirondack Park Agency
- 7:15 **Check into Crowne Plaza Resort** (*3 nights*)
- The group will be joined by Mr. Michael Liu
 District Ranger, Finger Lakes National Forest, New York; and Leadership Team
 member for the Green Mountain National Forest, Vermont, U.S. Forest Service
- 8:00 **Welcome Dinner**, Kate Smith Library, 2nd Floor
- Guests from the New York State Adirondack Park Agency*
 Mr. James Connolly, Acting Executive Director /Deputy Director for Planning
 Mr. Stephen Erman, Special Assistant for Economic Affairs
 Mr. Daniel Spada, Supervisor, Natural Resource and Scientific Services Division
 Mr. Keith McKeever, Director of Public Relations

Thursday, 14 May

- 7:00 am Breakfast at Crowne Plaza Resort, Mackenzie’s Restaurant off main lobby
- 7:45 Board bus to Keene, New York (*30 minute drive time*)
- 8:15 **Welcome at Keene Town Hall**
 Mr. William Ferebee, Keene Town Supervisor
- Discussion
 The Role of Local Government in a Protected Area
- 10:00 Board bus for short trip to Keene Valley Central School
- 10:15 Discussion
- Education and Grassroots Environmental Activism**
 Mr. Keith McKeever, Public Relations Director, Adirondack Park Agency
 Mr. Lawrence Phillips, Forest Resources, Adirondack Park Agency
 Students from Keen Valley Central School
- 12:00 Short walk to Ausable Inn for lunch
- 1:30 pm Board bus for short trip to Spread Eagle Mountain Trailhead
- Hike Spread Eagle Mountain**
 2,818 feet (858.93 meters) above sea level
- Discussion
- Protection and Responsible Recreational Use of Public Lands**
 Mr. Richard Weber, Assistant Director, Planning Division, Adirondack Park Agency
 Captain John Streiff, Regional Forest Ranger, New York State Department of
 Environmental Conservation

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- Mr. Kris Alberga, Supervising Forester, New York State Department of Environmental Conservation
- 4:00 Board bus to Keene Valley Central Business District
- Visit local shops and speak with business owners and residents
- 6:30 Board bus to Lake Placid
- 7:00 Dinner at Lisa G's Restaurant
- 8:00 Short walk back to hotel
- Mr. Michael Liu leaves the group

Friday 15 May

- 7:00 am Breakfast at Crowne Plaza Resort, Mackenzie's Restaurant off main lobby
- 7:45 Board bus to Paul Smiths, New York (*45 minute drive time*)
New York State Adirondack Park Visitor Interpretive Center
- 8:30 Discussion with Adirondack Park Agency Representatives
- Wetlands Protection and Outdoor Education**
Mr. Daniel Spada, Supervisor, Natural Resource and Scientific Services Division
Mr. Michael Brennan, Environmental Educator
- 10:30 **Board bus to Paul Smith's College – The College of the Adirondacks**
- Presentation
- Operating an Institute of Higher Education in a Protected Area**
Dr. Andrew Egan, Dean of Forestry, Natural Resources and Recreation, Paul Smith's College
- 12:00 Picnic lunch
- 12:30 pm Board bus to Saranac Lake, New York (*1 hour drive time*)
- Adirondack Fish Hatchery, New York State Department of Environmental Conservation**
- Bus will stop along the way to view Paul Smith's College forestry operations
- 1:30 Discussion with Department of Environmental Conservation Representatives
- Fish and Wildlife Management in a Protected Area**
Captain Larry DiDonato, Regional Chief Environmental Conservation Officer
Mr. Lance Durfey, Regional Wildlife Manager
Mr. Bill Schoch, Regional Fisheries Manager
Mr. Edward Grant, Hatchery Manager
- 2:30 Board bus for short drive to Fish Creek Pond Campground

- 2:45 Discussion
- Outdoor Recreational Opportunities**
 Mr. Nik McKay, Conservation Operations Supervisor, New York State Department of Environmental Conservation
 Mr. Jack Drury, Vice President, Leading EDGE, and Director of the Wilderness Recreation Leadership Program
- 4:30 Board bus to Tupper Lake, New York (*30 minute drive time*)
- 5:00 **Welcome to the Wild Center – Natural History Museum of the Adirondacks**
- Presentation
- Developing and Operating a World Class Natural History Museum**
 Ms. Stephanie Ratcliffe, Executive Director
 Ms. Jen Kretser, Director of Programs
- 5:30 **View film – “Wild Adirondacks”**
- 5:45 Explore outside exhibits and trails around the pond
- 7:00 Dinner
- 8:00 Free time to see Wild Center exhibits
- 9:00 Board bus to return to hotel

Saturday 16 May

- 7:00 am Bring luggage to hotel lobby for storage
- Participants wishing to do laundry should place all dirty items in a plastic bag and bring to lobby with luggage (put name on bag)*
- 7:30 Breakfast at Crowne Plaza Resort, Mackenzie’s Restaurant off main lobby
- The group will be joined by Adirondack Park Agency officials
 Mr. Keith McKeever, Mr. Stephen Erman, and Mr. Daniel Spada
- 8:30 Short walk to Placid Boat Works
- 8:45 Discussion
- Business Opportunities and Strategies in Protected Areas**
 Mr. Joe Moore, Owner, Placid Boat Works
- 10:30 Leisurely walk back to hotel
- 12:00 Lunch at Crowne Plaza Resort Golf House
- Presentation
- Mr. Arthur Lussi, President, Lake Placid Vacation Corporation and Board member, Adirondack Park Agency

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- 1:30 pm Board bus to Saranac Lake, New York (30 minute drive time)
- Presentation
- Evolution of an Industry and the Effects on Local Communities**
Ms. Mary Hotaling, Executive Director, Historic Saranac Lake
- 2:00 **Arrive at the Trudeau Institute**
- Presentation
- Operating a World Class Scientific Research Institute in a Protected Area**
Mr. David Woodland, President and Director, Trudeau Institute
- 4:30 Board bus to return to hotel
- 5:00 *Free time to do laundry in hotel coin-operated laundry facility*
- 8:00 Dinner at Crowne Plaza Resort, Kate Smith Library, 2nd Floor
- 9:00 Retrieve luggage from hotel storage and pack clean laundry
Pack a small bag of clothing and toilet articles for overnight and carry aboard bus
Load luggage on bus
- Board bus for Albany, New York (2.5 hour drive time)**
- 11:30 **Check into Best Western Airport Inn (overnight)**
Take only carry on bag and leave luggage on bus

Sunday 17 May

- 5:00 am Breakfast at Best Western Airport Inn
- Check out of hotel
- 5:30 Board bus to Albany International Airport
- 7:07 **Depart Albany, New York for Great Falls, Montana**
United Airlines flight #29
- 8:16 Stop over in Chicago
- 9:50 Depart Chicago
United Airlines flight #247
- 11:32 Stop over in Denver
- 1:58 pm Depart Denver
United Airlines flight #6615
- 3:52 **Arrive Great Falls, Montana**
- 4:30 Board bus to Fort Benton, Montana (1 hour drive time)

- 5:30 Dinner at Bob's Riverfront Restaurant
- 7:00 Board bus to Malta, Montana (*3 hour drive time*)
- 10:00 **Check into Great Northern Hotel** (*1 night*)

Monday 18 May

- 8:00 am Pack small bag or backpack for overnight on the prairie and bring luggage to hotel lobby for storage
- 9:00 Breakfast at Great Northern Hotel
- Check out of hotel
- 10:00 **Board vans to American Prairie Reserve Yurt Camp** (*1 hour drive time*)
- 11:00 **Welcome and orientation**
Ms. Meg Nicolo, Special Events Manager, American Prairie Foundation
- 11:15 Presentation
- Overview of American Prairie Reserve Sites and Programs**
Mr. Sean Gerrity, President, American Prairie Foundation/Reserve
- 12:00 Lunch at Yurt Camp
- 12:30 pm **Tour of American Prairie Reserve**
- Board vans with Guides*
Mr. Sean Gerrity, President, American Prairie Foundation/Reserve
Mr. Scott Laird, Director, Field Operations, American Prairie Reserve
Mr. Bryce Christensen, Manager, Reserve Operations, American Prairie Reserve
Dr. Kyran Kunkel, Senior Fellow, World Wildlife Fund Great Northern Plains Program
- 4:00 Return to Yurt Camp
- 5:00 **Short hike** led by Dr. Kyran Kunkel
- 5:45 **Return to Meeting Yurt for Evening Program**
- Mr. Sean Gerrity, President, American Prairie Foundation/Reserve
Mr. Dennis Jorgensen, Program Officer, World Wildlife Fund Great Northern Plains Program
Mr. Randy Matchett, Supervising Wildlife Biologist, Charles M. Russell National Wildlife Refuge
Dr. Rich Harris, Professor of Wildlife Conservation, University of Montana
- 6:00 **Native American Dance Performance**
Wildcat Indian Dance Troupe of Harlem High School, Harlem, Montana
- 6:45 Dinner at Yurt Camp
- 8:00 **Storytelling around the Campfire**
Mr. Buffalo Bill Willcutt, Wildlife Reserve Manager, American Prairie Foundation
Mr. Randy Matchett, Charles M. Russell National Wildlife Refuge

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

9:00 Return to yurts and tents for the night

Tuesday 19 May

6:00 am Pack personal belongings and bring bags to Kitchen Yurt

6:30 **Morning Bird Walk**
Dr. Rich Harris and Mr. Randy Matchett

7:30 Return to Yurt Camp for breakfast

8:15 Board vans to World Wildlife Fund Field Work Site (*30 minute drive time*)

8:45 **World Wildlife Fund Animal Tracking Program**
Mr. Dennis Jorgensen, Dr. Kyran Kunkel, and Dr. Rich Harris

12:00 Lunch at American Prairie Reserve Headquarters

1:00 pm Board vans to Malta (*1.5 hour drive time*)

2:30 **Tour Philips County Historical Society Museum**
Ms. Sharon Emons, Museum Curator

4:00 **Check into Great Northern Hotel** (*1 night*)

6:00 Meet in hotel lobby for short walk to Stockman Bar & Grill Restaurant

6:30 **Global Exchange Community Dinner**
Hosted by the American Prairie Foundation

7:00 **Panel Discussion on Conservation and Land Management**

Introductions by Mr. Sean Gerrity, President, American Prairie Foundation/Reserve

Dr. Rich Harris, University of Montana
Mr. George Horse Capture, Jr., Leader of the Gros Ventre/White Clay People
Mr. Scott Laird and Mr. Bryce Christensen, American Prairie Foundation/Reserve
Ms. Carmen Luna and Mr. Bruce Barbour, Bowdoin National Wildlife Refuge
Mr. Dennis Jorgensen, World Wildlife Fund
Mr. Randy Matchett, Charles M. Russell National Wildlife Refuge
Students from Malta High School who are members of the Key Club, a community service organization

8:30 Walk back to hotel

Wednesday 20 May

7:00 am Bring luggage to lobby to load on bus

7:30 Breakfast at Great Northern Hotel

Check out of hotel

- 8:30 Board bus to wildlife refuge (*15 minute drive time*)
- 8:45 **Guided Auto Tour of Bowdoin National Wildlife Refuge**
Ms. Carmen Luna, Refuge Manager, U.S. Fish and Wildlife Service
- 10:45 **Hike to Wetland Restoration Projects**
Mr. Bruce Barbour, Wildlife Biologist, U.S. Fish and Wildlife Service
- 12:15 pm Board bus to Great Northern Hotel in Malta for lunch
- 1:00 Board bus to another wildlife refuge (*1.5 hour drive time*)
- 2:30 **Guided Auto Tour of Charles M. Russell National Wildlife Refuge**

Mr. Barron Crawford, Project Leader
Mr. Randy Matchett, Senior Wildlife Biologist
Dr. Robert Skinner, Wildlife Biologist
Mr. Mike Granger, Fire Management Officer
Mr. Bill Berg, Deputy Project Leader
Mr. Matt deRosier, Manager, Sand Creek Wildlife Station
- 6:00 Dinner at Elk Viewing Area
- 7:15 Board bus to Lewiston, Montana (*1 hour drive time*)
- 8:15 **Check into Yogo Inn (*1 night*)**

Thursday 21 May

- 6:00 am Bring luggage to lobby to load on bus

Pick up boxed breakfast

Check out of hotel
- 6:30 **Board bus to Billings, Montana (*2 hour drive time*)**
- 8:30 Stop at Billings International Airport where Ms. Meril Fujiki will leave the group

Ms. June Kuramoto, Program Officer, East-West Center, will join the group here
- 9:00 Stop at Cabela's Outfitters
- 10:30 Stop at Connolly's Saddlery
- 11:30 Stop at **Rimrock Mall**
Lunch in Food Court
- 2:00 Board bus to Gardiner, Montana (*2.5 hour drive time*)
Yellowstone National Park North Entrance
- 5:30 **Check into Best Western By Mammoth Hot Springs (*3 nights*)**

Hotel has a coin-operated laundry facility
- 6:30 Dinner at Best Western Hotel, Yellowstone Mine Restaurant

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

Friday 22 May

- 6:30 am Breakfast at Best Western Hotel, Yellowstone Mine Restaurant
- 7:30 **Board bus to Yellowstone Park Headquarters** (20 minute drive time)
- 8:00 **Welcome Remarks**
- Park Administration Building, Superintendent's Conference Room (3rd floor)
Ms. Suzanne Lewis, Yellowstone Park Superintendent
or
Deputy Park Superintendents Mr. Colin Campbell
Deputy Park Superintendent Ms. Christine Lehnertz
- 8:15 Presentations by Yellowstone National Park Representatives
- Yellowstone National Park Overview**
Mr. John Sacklin, Management Assistant
- 9:30 **Park Maintenance Facilities Overview**
Mr. Steve Iobst, Chief of Maintenance
- 9:45 Board bus
- 10:00 **Tour of Mammoth Area Park Maintenance Facilities**
Water treatment plant, maintenance shop, and recycling facility
Mr. Steve Iobst, Chief of Maintenance
- 11:45 Lunch on bus
- 12:00 **Guided Tour of Yellowstone National Park**
- Group will be joined by Mr. Roy Renkin, Vegetation Management Specialist,
Yellowstone Center for Resources
- Discussion
Fire Ecology and Management, Vegetation, and Related Wildlife Issues
- 5:00 pm Return to Mammoth Hot Springs for dinner, Mammoth Dining Room
- 6:30 Board bus to return to hotel

Saturday 23 May

- 5:30 am Breakfast at Best Western Hotel, Yellowstone Mine Restaurant
- 6:30 Board bus to Mammoth Hot Springs
- 7:00 **Yellowstone Park Gray Wolf Reintroduction Program**
- Group will be joined by Mr. John Sacklin and Mr. Rick McIntyre, Biological Technician

11:00 Lunch on bus
12:00 **Canyon Visitor Center**
Orientation/presentation by Interpretive Park Ranger
3:00 pm Board bus to return to Mammoth Hot Springs
5:00 Arrive at Mammoth Hot Springs Visitor Center
6:00 Board bus to return to hotel
7:00 Dinner at Best Western Hotel, Yellowstone Mine Restaurant

Sunday 24 May

7:30 am Bring luggage to hotel lobby to load on bus
8:00 Breakfast at Best Western Hotel, Yellowstone Mine Restaurant
Check out of hotel
8:45 **Board bus for all-day Tour of Yellowstone National Park**
12:30 pm Picnic Lunch
5:45 **Check into Old Faithful Inn (1 night)**
7:00 Dinner at Old Faithful Inn

Monday 25 May **Memorial Day - National Holiday**

8:00 am Breakfast at Old Faithful Inn
9:00 Meet in hotel lobby and walk to Geysir Basin
Presentation
Yellowstone Park Visitor Impacts, Program Offerings, Safety Issues
Ms. Katy Duffy, Senior Interpretive Ranger
10:00 Return to hotel
Pack small bag of clothing and toilet articles for overnight and bring small bag and other luggage to lobby for storage
11:00 Check out of hotel
11:30 Lunch at Old Faithful Inn
12:30 pm *Free afternoon for self-guided, short hikes around Geysir Basin or exploring Visitor Center*

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- 5:00 Dinner at Old Faithful Inn
- 6:30 Load luggage on bus and carry small overnight bag on board
- Board bus to Bozeman, Montana** (2.5 hour drive time)
- 9:00 **Check into Best Western GranTree Hotel** (1 night)
Take only carry on bag and leave luggage on bus

Tuesday 26 May

- 5:00 am Bring luggage to lobby to load on bus
- Check out of hotel
- 5:15 Pick up box breakfast in hotel lobby
- 5:30 Board bus to Bozeman Airport for flight to Honolulu, Hawaii
- 7:30 **Depart Bozeman**
United Airlines flight #6646
- 9:15 Stop over in Denver
- 11:22 Depart Denver
United Airlines flight #123
- 1:00 pm Stop over in San Francisco
- 4:40 Depart San Francisco
United Airlines flight #77
- 7:07 **Arrive Honolulu, Hawaii**
- 8:00 Board bus to hotel
- 8:30 **Check into Maile Sky Court Hotel** (5 nights)
Hotel has a coin-operated laundry facility
- 9:00 Dinner at Maile Sky Court Hotel, Vit's Hawaiian Steak House

Wednesday 27 May

- 8:00 am Board bus to the East-West Center (15 minute drive time)
- Arrive at Imin International Conference Center**
Koi Room on Garden Level
- 8:30 Breakfast in Garden Level Dining Room
- Dr. Robert Wu, Interpreter, joins the group

- 9:00 **Welcome to the East-West Center and Introductions**
- Ms. Carol Fox, Director of Strategic Planning & Partnerships
Mr. Raymond Burghardt, Director, East-West Seminars Program
- 9:15 **Brief Remarks**
- Ms. Rose Niu, Deputy Managing Director, North Asia Region, The Nature Conservancy
Worldwide Office
Mr. Bryan Harry, former Pacific Area Director, U.S. National Park Service
Ms. Dee Dee Letts, President, Resolutions Hawaii
- 9:30 Presentation
- National Park Issues for China**
Mr. Bryan Harry
- 10:30 Tea break and group photograph in the Japanese Garden
- 11:00 **Small Group Working Sessions**
- 12:30 pm Lunch in Garden Level Dining Room
- 1:15 **Small Group Working Sessions**
- 3:00 Tea break
- 3:15 **Small Group Interim Reports**
Summary of today's work and issues for further discussion and examination
Ms. Dee Dee Letts, Facilitator
- 5:15 Board bus for short drive to Ala Moana Shopping Center
Ms. June Kuramoto will meet group at Ala Moana
- 6:00 Dinner at Chinatown Express in Food Court
- 8:00 Board bus to return to hotel

Thursday 28 May

- 7:30 am Board bus to East-West Center
Imin International Conference Center, Koi Room, Garden Level
- 8:00 Breakfast in Garden Level Dining Room
- 8:30 **Comments on Small Group Work**
- Ms. Rose Niu, The Nature Conservancy Asia Region
Ms. Carol Fox, East-West Center
Mr. Bryan Harry, U.S. National Park Service
Ms. Lucy Yu, The Nature Conservancy China Program
Ms. Yang Fang, National Park Management Office, Yunnan Province, China
- 9:30 Tea break
- 9:45 **Small Group Working Sessions**

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- 12:30 pm Lunch in Garden Level Dining Room
- 1:00 **Small Group Working Sessions**
- 2:00 **Small Group Interim Reports**
Summary of today's work and issues for further discussion and examination
Ms. Dee Dee Letts, Facilitator
- 3:45 Tea break
- 4:00 **Board bus for Hawaii Nature Center (15 minute drive time)**
- 4:30 **Welcome Remarks**
Mr. Gregory Dunn, Executive Director, Hawaii Nature Center
- 4:45 **Hike** led by Mrs. Pauline Kawamata, Volunteer Program Manager
- 5:30 Presentations by Hawaii Nature Center Representatives
- Overview of Hawaii Nature Center Educational Programs for School Children**
Ms. Casey Carmichael, Director of Oahu Operations
- Volunteering for the Hawaii Nature Center**
Ms. Pauline Kawamata, Volunteer Program Manager, Hawaii Nature Center
- 7:00 Board bus for short drive to Maple Garden Restaurant for dinner
- 9:00 Board bus to return to hotel

Friday 29 May

- 7:30 am Board bus to East-West Center
Imin International Conference Center, Koi Room, Garden Level
- Ms. Meril Fujiki rejoins group
- 8:00 Breakfast in Garden Level Dining Room
- 8:30 **Comments on Small Group Work**
- Ms. Rose Niu, The Nature Conservancy Asia Region
Ms. Carol Fox, East-West Center
Mr. Bryan Harry, U.S. National Park Service
Ms. Lucy Yu, The Nature Conservancy China Program
Ms. Yang Fang, National Park Management Office, Yunnan Province, China
- 9:30 Tea break
- 9:45 **Small Group Working Sessions**
- 11:00 **Final Small Group Reports**
Ms. Dee Dee Letts, Facilitator

- 12:30 pm Lunch in Garden Level Dining Room
- 1:00 **Final Small Group Reports**
Ms. Dee Dee Letts, Facilitator
- 3:00 Tea break
- 3:15 **Leadership and Team Building Workshop**
Ms. Dee Dee Letts, Trainer
- 5:30 **Dinner Reception and Awarding of Certificates**
Hale Halewai
- 7:30 Board bus to return to hotel

Saturday 30 May

- 6:45 am Breakfast at Maile Sky Court Hotel, Vit's Hawaiian Steak House
- 7:30 Board bus to Kaaawa (*1 hour drive time*)

Wear sneakers and long pants (women should tie long hair back)
Bring change of clothes, towel, and soap

The group will be joined by Ms. Meril Fujiki, Ms. Mariko Davidson, and Dr. Xin Liu
- 8:30 **Arrive at Kualoa Ranch Visitor Center**
Transfer to ranch vehicles for transportation to High Ropes Course
- 9:00 **All-day Leadership and Team Building Program** (includes lunch)
Mr. Peter Hansen, High Ropes Course Leader
- 5:00 pm Board bus to Kaaawa Beach Park to shower and change clothes
- 5:45 Board bus to home of Ms. Dee Dee Letts for dinner

Ms. Meril Fujiki and Ms. Dee Dee Letts say goodbye to the group
- 8:30 Board bus to return to hotel (*1 hour drive time*)

Sunday 31 May

- 8:00 am Breakfast at Maile Sky Court Hotel, Vit's Hawaiian Steak House

The group will be joined by Ms. Mariko Davidson and Dr. Xin Liu
- 9:00 Board bus to Hanauma Bay (*30 minute drive time*)
- 9:30 **Arrive at Hanauma Bay Nature Preserve**
- 9:45 **Welcome**

Mr. Alan Hong, Park Manager, Hanauma Bay Nature Preserve
Ms. Elizabeth Kumabe Maynard, Leader, Hanauma Bay Education Program, and
Regional Environmental Education Extension Agent, University of Hawaii Sea Grant
College Program

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

- 10:00 Presentation
- Hanauma Bay Management Plan**
 Mr. Alan Hong
- 11:15 View short film
- 11:30 Picnic lunch
- 12:00 **Free time to enjoy Hanauma Bay**
 Swimming, snorkeling, hiking
 Masks, fins, and snorkels are available to rent
- 3:00 pm Board bus to return to hotel
- 4:30 Bring luggage to lobby to load on bus
- Check out of hotel
- 4:45 Board bus for short drive to Buffet 100 Restaurant for dinner
- 6:00 **Board bus to Honolulu International Airport**
- 8:45 **Depart Honolulu, Hawaii for Beijing, China**
- United Airlines flight #76 with change in San Francisco
 United Airlines flight #889 leaving 11:28 am (Monday 1 June)
- Arrive Beijing** at 2:40 pm (Tuesday 2 June)

U.S. Field Study Organizations

11 – 12 May 2009

The Nature Conservancy Worldwide Office — Arlington, Virginia

The Nature Conservancy is an environmental organization working to preserve the plants, animals, and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive. First founded as the Ecologists Union in 1946 by a small group of scientists who were committed to taking direct action to save threatened natural areas in the United States, The Nature Conservancy has since become the leading conservation organization working in over 30 countries, including all 50 states in the U.S. With science-based methodology and the support of more than one million members, The Nature Conservancy has protected more than 117 million acres of land and 5,000 miles of rivers worldwide and has operated more than 100 marine conservation projects globally. The organization also addresses conservation threats in areas such as climate change, fresh water, ecosystem services, invasive species, forests and marine. The Nature Conservancy ensures effective and sustainable conservation results through partnerships with indigenous communities, businesses, governments, multilateral institutions, and other non-profit organizations.

Rare~ Inspiring Conservation —Arlington, Virginia

Rare is the leader in social marketing for biodiversity conservation, with a successful track record in more than 50 countries to date, training and supporting leaders from the world's top environmental organizations, local grassroots groups, and governments. Social marketing—a method for changing attitudes and behaviors—has been successfully applied by other organizations to such issues as seatbelt use, smoking, pollution, teen drug abuse, and reproductive health.

Rare's proven model for changing awareness, attitudes, and behaviors toward conservation at the local level is the Pride Campaign. Each campaign inspires people to take pride in the natural assets that make their communities valuable and take action to protect them. Pride campaigns are intensive year-long marketing efforts that borrow private sector tactics and apply them to promoting more environmentally sustainable practices.

Rare has trained 158 local leaders in the developing world, whose campaigns have influenced more than 6.8 million people living in over 2,400 remote communities. Together with their partners, Rare has created new protected areas and better reserve management; reduced forest fires, illegal logging, destructive fishing and unsustainable agriculture; and saved multiple species on the brink of extinction.

Rare Pride Campaign China Program

Rare launched the China program in September 2008, in partnership with the Mandarin Language Training Center and the Southwest Forestry University in Kunming, Yunnan, China. Seven conservationists from around the country were selected to focus on the common threat—illegal logging and fuel wood—of over consumption in protected areas. With training and technical support from Rare, each manager will run his or her own campaign, highlighting specific environmental threats and working with communities to address relevant challenges. The Rare China Pride Campaigns of 2008-10 include *Illegal Logging/Fuel wood Collection* (Yuhe Nature Reserve; Dashanbao Nature Reserve, Yunnan Province; Baima Nature Reserve, Yunnan Province; Meili Mountain, Yunnan Province), *Tourism* (Gaoligong Nature Reserve, Yunnan Province); and *Illegal Hunting* (Hunchun Nature Reserve, Jilin Province).

13 – 16 May 2009

Adirondack State Park — New York State

Over a century ago, a group of visionary New Yorkers made a landmark decision to create the largest, most unique park in the entire United States. The Adirondack State Park was created in 1892 by the State of New York—a six million-acre collection of publicly protected lands declared “forever wild,” interspersed with privately held property. The Adirondack Park was designed to be a place where people and nature could peacefully coexist. Today the park is still the largest publicly protected area in the contiguous United States, greater in size than Yellowstone, Everglades, Glacier, and Grand Canyon National Park combined, with the best

remaining examples of hardwood forests, bogs, lakes, rivers, alpine summits, and spruce-fir forests. Approximately nine million people visit the park each year. Half of the land belongs to the people of the State of New York and is constitutionally protected to remain “forever wild” forest preserve. The remaining half of the park is private land. In addition to 105 towns, villages, and farms; 2800 lakes and ponds, and 30,000 miles of rivers and streams, the park has huge wilderness regions, timber lands, businesses, homes, and camps. Lake Placid and the high peak area of the park was the site of the Winter Olympics of 1932 and 1980 and is now a winter sports training area.

The Adirondack Park has approximately 130,000 year-round residents, and millions of seasonal and short-term visitors. While the park does provide a great model for how people and wild lands can coexist, it also faces many challenges including increasing rates of residential development and recreational use, and loss of traditional industries that threaten the economic viability of many communities. These changes have exacerbated tensions between the preservationists and local residents. Large-scale threats, such as acid rain, global climate change, incompatible forestry practices, invasive species, and incompatible recreation also severely threaten the Adirondack ecosystem and local way of life.

New York State Adirondack State Park Agency

Created in 1971, the Adirondack Park Agency is an independent agency in the Executive Department. Established “to insure optimum overall conservation, protection, development and use of the unique scenic, aesthetic, wildlife, recreational, open space, historic, ecological and natural resources of the Adirondack Park,” the Agency seeks to accomplish this through administration of the Adirondack Park State Land Master Plan (for State-owned lands in the Park) and the Adirondack Park Private Land Use and Development Plan (for privately-owned lands in the Park). In addition to its planning and development permitting responsibilities, the Agency has responsibility, through its Interpretive Programs Division, for building public understanding of the history and significance of the public and private resources of this very special park. The Agency also administers the State Wild, Scenic and Recreational Rivers System Act and the State Freshwater Wetlands Act within the Park.

New York State Department of Environmental Conservation

The Department of Environmental Conservation is responsible for administration and enforcement of New York State's Environmental Conservation Law. The Department's major responsibilities are management of the State's Forest Preserve lands; administration of fish and wildlife laws; management of marine and coastal resources; regulating disposal, transport and treatment of hazardous and toxic wastes in an environmentally sound manner; managing the State's program for oil and chemical spills; providing for the abatement of water, land and air pollution, including pesticides; monitoring environmental conditions and testing for contaminants; encouraging recycling, recovery and reuse of solid waste; providing assistance to private forest landowners and managing fire prevention and control efforts; promoting the wise use of water resources; regulating mining, extraction of oil and gas, and underground storage of natural gas and liquefied petroleum gas.

Visitor Interpretive Center — New York State Adirondack Park Agency

The Visitor Interpretive Center includes a building and trail system on a 2,885-acre preserve owned by Paul Smith's College. The State of New York leases the land to operate this public facility. The site includes a sixty-acre marsh, five ponds, several brooks and swamps, significant glacial and geological features, varied forest types, scenic vistas, a large public assembly building (including classrooms, a 150-seat theater, exhibit rooms, resource library, visitors lounge, and a passive energy-saving sun space with an art gallery, a gift shop and administration offices), the Whispering Pines Amphitheater, the Native Species Butterfly House, a children's playground, a trail system, picnic pavilions and a 125-car parking lot.

In addition, the Visitor Interpretive Center features six miles of interpretive trails and eight miles of backcountry trails for spring, summer and fall use. During the winter, there are nine miles of trails used for snowshoeing and cross-country skiing. Educational programs include on-site science and naturalist programs for adults and schoolchildren, summer activities, trail walks, bird-on-hand programs and lectures. As a New York State wildlife viewing site, visitors may catch a glimpse of the following species of wildlife on the

property: common loon, great blue heron, beaver, red fox, coyote, black bear, white-tailed deer, snowshoe hare, muskrat, moose, and many species of birds.

Paul Smith's College —The College of the Adirondacks

At Paul Smith's College, students study how to grow and manage forests, measure the globe from space, study complex ecosystems, conduct research on wildlife habitat, and care for trees in their home towns. The College prepares students for careers in the fields of forestry, outdoor recreation, fish and wildlife sciences, surveying, and tree care and landscape management. Paul Smith's College develops broadly educated leaders in natural resources science, sustainability, and management by promoting scholarship, curiosity, and creativity in natural resource science and practice. The College seeks to create and maintain an environment of student-centered environmental education that enhances the learning and success of all students. College graduates include professional surveyors, fisheries and wildlife scientists, arborists and tree care specialists, professional foresters and forest scientists, outdoor recreation outfitters and backcountry guides, educators, business owners, and community leaders.

Adirondack Fish Hatchery

The New York State Department of Environmental Conservation operates twelve fish hatcheries or fish culture stations across the State. Each hatchery specializes in raising one or more species of fish. These hatcheries produce fish for stocking into more than 1,200 public waters state-wide. The specialized equipment and modern facilities available at each hatchery allows the Department to produce large numbers of healthy fish. The Adirondack Fish Hatchery specializes in rearing landlocked Atlantic salmon for statewide distribution. Annual production averages 30,000 pounds of salmon, with most fish stocked in the spring as yearling smolts (six inches long) or as non-feeding fry. The indoor visitor center contains a pool of salmon, a monitor showing brood fish in a pond, and other exhibits on fish propagation.

Fish Creek Pond Campground

Fish Creek Pond Campground, operated by the New York State Department of Environmental Conservation, is considered to be the finest and most attractive of all the Adirondack campgrounds. Established in 1926, it offers a natural sand shoreline and water access for most of its 355 campsites (319 sites are directly on the lakeshore). The sites are well treed with balsam fir, white pine, maple and birch. Campers are provided with pristine rivers and ponds accessible to both motorized and non-motorized boats. Motorboat operators can also enjoy miles of open water on the Upper Saranac Lake. Camping equipment from tents to large recreational vehicles can be accommodated in the campgrounds. Recreational activities include interpreter programs, fishing (black bass, northern pike, salmon, and rainbow trout), hiking, swimming, and bicycling. The campground's Nature Recreation Program is offered from the end of June to the first week of September. The program includes nature hikes, crafts, games and live entertainment. An activity listing, the "Wilderness Times," is posted and contains complete information on daily events.

The Wild Center — Natural History Museum of the Adirondacks

The Wild Center—Natural History Museum of the Adirondacks is located on a 31-acre site in the Town of Tupper Lake, New York near the geographic center of the Adirondack Park, is committed to inspiring a broad public understanding of the natural systems that shape and sustain life in the Adirondacks, which is made up of great expanses of nature interspersed with small towns and communities—a place that serve as a model for a future where man and the rest of the natural world find better ways to coexist. The museum is science-based, and its experiences, exhibits and programs are designed to open new ways to look into the latest discoveries made by natural scientists. The Wild Center is a new kind of natural history museum that mixes the indoor and outdoors in unusual ways. There are waterfalls inside, and exhibit labels in the woods outside. Hiking trails outside the Center are like museum exhibit halls, except they are in the forest, with labels that trained staff can change daily. Live otter and bird sounds mix with the splashing cascade of falling water from a trout-filled stream. Films from engaging field scientists doing research in the Adirondacks showcase the world that surrounds the museum.

Placid Boat Works

Placid Boatworks builds lightweight, efficient paddle craft that help people of all ages and physical abilities enjoy the great outdoors. In their waterside shop in Lake Placid, Placid Boatworks creates the highest quality solo and tandem recreational canoes available. They are known for their strong, lightweight carbon and kevlar construction, hand-finished Adirondack cherry gunwales and seat frames or high-tech, ultralight Cobrasox Highly water resistant thwarts and deck plates of colorful, laminated hardwood.

The Historic Saranac Lake

Founded in 1980, Historic Saranac Lake is a nonprofit, historic preservation, membership organization offering professional knowledge and experience to the public in support of historic preservation, architectural and historical research, and education. Dedicated to nurturing a sense of place and pride in the community by advocating the restoration, preservation, and interpretation of the Saranac Lake area, the Historic Saranac Lake is located in the Village of Saranac Lake, a year-round resort town, within New York State's 6 million-acre Adirondack Park.

Trudeau Institute

The Trudeau Institute was founded in 1884 as a tuberculosis treatment and research facility. One of the patients who came from Canada to Saranac Lake to cure his tuberculosis was Dr. Norman Bethune. He later became famous in China for aiding Chairman Mao Tse-tung by establishing field surgical hospitals during the Long March.

As new drugs became available in the 1950's to treat the disease, the Institute was rededicated in 1964 as an independent nonprofit organization committed to world-class biomedical research. The Institute's mission is to make breakthrough discoveries that lead to improved human health, focusing on the eradication of infectious and inflammatory disease through basic research aimed at the development of vaccines and immune-based therapeutics. Today, renowned scientists from around the world work at the Institute to better understand the human immune system for the purpose of developing new treatments and prevention strategies against disease. The Trudeau Institute receives generous support from individuals, corporations and foundations, with Institute scientists receiving major grants and awards in support and recognition of their research from the National Institutes of Health.

Facilities are on 42 acres in Saranac Lake, New York. They include research and support space and housing for faculty and postdoctoral fellows. Institute honors include being rated among the top three "Best Places to Work" for scientists and postdoctoral fellows by *The Scientist* magazine. Future plans include the construction of an additional research and support space by 2011, which would lead to a total of 210 employees.

17 – 20 May 2009

American Prairie Foundation/Reserve — Malta, Montana

The American Prairie Foundation is assembling a wildlife reserve amidst the majestic prairie landscape of Montana by acquiring private land to interconnect with large, publicly-owned islands of protected wildlife habitat. A mere one-percent of the planet's grasslands are under any form of protection. Leading scientists from organizations such as World Wildlife Fund and The Nature Conservancy have pinpointed the American Prairie Reserve in northeastern Montana and its immediate surroundings as one of the Earth's most critical sites for safeguarding biodiversity. Thousands of elk, pronghorn, deer, and bighorn sheep inhabit the region alongside various predators including mountain lions and bobcats. It is also home to many smaller species, such as the burrowing owl, swift fox and black-footed ferret, one of the world's most endangered mammals, and it supports the largest number of endemic species of prairie birds in North America. The American Prairie Foundation was formed in 2001 solely to acquire land and soundly manage the proposed reserve.

Although there are well-established islands of conservation in the area, such as the Charles M. Russell National Wildlife Refuge and the Upper Missouri River Breaks National Monument, these areas include little prairie

habitat and are too disconnected for large-scale wildlife conservation. Restoration of adjacent prairie lands will connect these islands, creating an approximately three-million acre complex—the size recommended by biologists for a self-sufficient, fully functioning ecosystem.

Thanks to the stewardship of local landowners, more than 90 percent of the prairie in this area has never been plowed. Since developers and other amenity buyers have “discovered” this area, there is a narrow window of opportunity to purchase these ranches and manage the land for the wildlife and the benefit of the public. When complete, the American Prairie Foundation envisions a wildlife complex one and a half times the size of Yellowstone National Park, or roughly the same size as the African Serengeti.

Since its inception, the American Prairie Foundation has raised \$24 million dollars and assembled over 86,000 acres of deeded and leased public land. They have restored non-hybridized American bison to their ancestral homeland, with the herd numbering 100 in 2009. Their annual visitor count is approximately 330 people per year.

The American Prairie Foundation works closely with World Wildlife Fund as their science partner; cooperative projects include stream and riparian restoration, baseline biodiversity monitoring, and prairie dog and ferret restoration. In addition, the American Prairie Foundation’s Educational Outreach Program partners with local schools, the Montana Outdoor Science School of Bozeman, Montana and the World Wildlife Fund to provide diverse educational experiences. These experiences expose students of all ages to a wealth of ecological and historical components unique to the northern Great Plains.

World Wildlife Fund

For more than 45 years, the World Wildlife Fund (WWF) has been protecting the future of nature. The largest multinational conservation organization in the world, it works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally. WWF's unique way of working—combining global reach with a foundation in science—involves action at every level from local to global, and ensures the delivery of innovative solutions that meet the needs of both people and nature. Using the best available scientific knowledge, WWF works to preserve the diversity and abundance of life on Earth and the health of ecological systems by protecting natural areas and wild populations of plants and animals, including endangered species; promoting sustainable approaches to the use of renewable natural resources; and promoting more efficient use of resources and energy and the maximum reduction of pollution.

The World Wildlife Fund Great Northern Plains Program

The Great Northern Plains Program in Montana works to conserve one of the least protected places on Earth. By collaborating with local partners, the WWF works to find creative ways to foster thriving local communities amidst a healthy prairie in a sustainable, diversified economy where agriculture and conservation coexist. The Northern Great Plains house more than 1,500 species of plants (blue grama, sagebrush, coneflower); 300 birds (greater sage grouse, golden eagle, sandhill crane); and 220 species of butterfly. In addition, this region is home to more than 90 mammals, including the American bison, the prairie dog and the blackfooted ferret—one of the most endangered mammals in North America.

Current threats include agricultural subsidies that enable sodbusting (the grassland equivalent of cutting old-growth forest); traditional grazing practices that reduce habitat diversity for grassland birds and other species; inappropriate use of fertilizers, pesticides and herbicides which result in widespread regional contamination of surface and groundwater; climate change; oil, gas and coal development; and land fragmentation due to roads, railroads, tilled lands.

Phillips County Museum

The Phillips County Museum, in Malta, Montana, is in the heart of Missouri River Country and on the Lewis and Clark Trail. The museum is dedicated to the preservation and interpretation of Phillips County’s natural, historic and cultural heritage. Historical exhibits include mining, Native Americans, dinosaurs, outlaws and farm/ranch/homestead items.

Millions of years ago the place that became Malta was a coastline on the shores of an expansive inland ocean. The dinosaurs who roamed here make Phillips County one of the richest fossil areas in the United States. In more recent times the Assiniboine and Gros Ventre Indian Tribes made homes here, as did many early

homesteaders. Portions of the museum are devoted to display of many American Indian artifacts and collections. Cowboys, ranchers, and outlaws settled here as well. The infamous outlaw Kid Curry began his career here and hid out in the nearby mountains for many years. There are local photographs, books and notebooks in addition to newspapers from the 1890-1980 containing local historical information. The Phillips County Museum strives to pay tribute to each of these influential groups.

Bowdoin National Wildlife Refuge, U.S. Fish and Wildlife Service — Malta, Montana

The Bowdoin National Wildlife Refuge was established in 1936 as a migratory bird refuge. It is located in the short and mixed grass prairie region of North-central Montana and encompasses 15,551 acres. Managed by the U.S. Fish and Wildlife Service, Bowdoin is one of over 540 refuges in the National Wildlife Refuge System—lands set aside to conserve wildlife and habitat and as a place for people to enjoy today and for generations to come. The refuge receives approximately 7,000-8,000 visitors annually, with numbers continuing to increase every year.

The Refuge's primary purpose is to preserve and enhance resting, feeding, and breeding habitat for migratory birds and other wildlife. It attracts migrating waterfowl and shorebirds by the thousands and provides breeding and nesting habitat for ducks, geese, grassland songbirds, and colonial nesting water birds. The area is equally important to a variety of resident wildlife, including raptors, white-tailed deer, pronghorn antelope, sharp-tailed grouse, and coyotes. Threatened species include the bald eagle, piping plover and peregrine falcons.

North-central Montana is made up of many depressional wetlands created by glaciers over 12,000 years ago. Major habitat types on the Refuge include saline and freshwater wetlands, native prairie, planted dense nesting cover and shrubs. Refuge wetlands total 7,226 acres with the remaining habitat consisting of uplands.

Charles M. Russell National Wildlife Refuge, U.S. Fish and Wildlife Service — Lewistown, Montana

The Charles M. Russell National Wildlife Refuge, established in 1936, is the largest national wildlife refuge in Montana—covering 1.1 million acres—and is the second largest refuge in the lower 48 states. About 176,000 additional acres are proposed for wilderness designation. The refuge, managed by the U.S. Fish and Wildlife Service, covers expansive badlands, cottonwood river bottoms, old-growth forested coulees, sagebrush steppe and mixed grass prairies. The diversity of plant and animal communities found on the refuge stretch from the high prairie through the rugged Breaks, the Missouri River and Fort Peck Reservoir. Encompassing more than a million acres, the refuge affords the 250,000 annual visitors solitude, serenity, and unique opportunities to experience natural settings and wildlife similar to what Native Americans and later Lewis and Clark observed. Visitors can see bighorn sheep, elk, mule deer, pronghorn, prairie dogs, and over 236 species of birds. The refuge is an outstanding example of a functioning, intact landscape in an ever-changing West.

The UL Bend National Wildlife Refuge established in 1969—a “refuge-within-a-refuge”—lies within the Charles M. Russell National Wildlife Refuge and contains 20,000 acres of designated wilderness.

21 – 25 May 2009

Yellowstone National Park — Wyoming

Established in 1872, Yellowstone is the world's first and oldest national park. An international symbol of natural preservation, it is also a Biosphere Reserve, and World Heritage Site. With 96 percent in Wyoming, 3 percent in Montana, and 1 percent in Idaho, Yellowstone National Park encompasses 3,472 square miles of mountain wildland. It is the second largest national park in the continental United States.

Yellowstone preserves abundant and diverse wildlife in one of the largest remaining intact wild ecosystems on Earth, supporting unparalleled biodiversity. The park protects the gray wolf, grizzly bear, bald eagle, and lynx. It is home to one of the largest concentrations of elk in the world, and is the only place in the U.S. where bison have existed in the wild since primitive times. With the restoration of the gray wolf in 1995, Yellowstone now contains all the large mammal species known to be present when European Americans arrived. The park

protects one of the largest grizzly bear populations in the United States, and is home to one of the largest concentrations of elk in the world.

Within its borders, Yellowstone also embraces the world's most extraordinary collection of geysers and hot springs, containing approximately half of the world's hydrothermal features—more than 10,000, including the world's largest concentration of geysers—more than 300. It is also the site of one of the largest volcanic eruptions and calderas in the world, the spectacular Grand Canyon of the Yellowstone, and the largest lake above 7,000 feet in North America. More than 2,400 miles of streams flow through Yellowstone, some of which provide the best and most challenging fly-fishing in the world.

The human history of the Yellowstone region goes back more than 11,000 years. Cultural and historic resources abound in Yellowstone, with more than 1,100 prehistoric and historic Native American and European American archeological sites, 230 ethnographic resources, a museum collection of more than 379,000 cultural objects and natural science specimens, 90,000 historic photographs, and thousands of irreplaceable historic documents. Ancestors to contemporary Blackfeet, Cayuse, Coeur d'Alene, Bannock, Kiowa, Nez Perce, Shoshone, and Umatilla—among others—visited geysers, conducted ceremonies, hunted, gathered plants and minerals, and engaged in trade. Although Yellowstone had been thoroughly tracked by trappers and tribes, in the view of the nation at large it was really “discovered” by formal expeditions in the 1800s. Reports, lectures, and articles by these explorers throughout the century led Congress to set aside the vast Yellowstone area as a national park in 1872.

Today there are five different park entrances with 466 miles of roads and more than 15 miles of boardwalks. The park has approximately 1,000 miles of backcountry trails, 92 trailheads and 301 backcountry campsites. Yellowstone has nine visitor centers, contact stations, and museums; nine hotels/lodges (2,200+ rooms/cabins), seven National Park Service campgrounds (450+ sites), five concession-operated campgrounds (1,700+ sites), 1,500+ buildings, 52 picnic areas, one marina, and thirteen self-guiding trails.

Visitation to Yellowstone hit a record high in 2007, with over 3.1 million visitors. Average annual visitation over the past ten years has been approximately 2.9 million. The park employs 400 year-round National Park Service employees. During the peak summer season, an additional 800 employees are hired by the National Park Service. There are also approximately 3,500 concession employees working in the park during the summer.

26 – 31 May 2009

Hawaii Nature Center — Honolulu, Hawaii

The Hawaii Nature Center began as a project of the Outdoor Circle in 1981. Since then, more than 800,000 children and adults have participated in its environmental education programs. The Center is recognized as the only organization in the State of Hawaii solely dedicated to educating island children about their unique environment in the out-of-doors. The Center is dedicated to fostering awareness, appreciation and understanding of Hawaii and its natural environment; teaching Hawaii's young people about their environment; encouraging wise stewardship of precious island ecosystems; and providing a unique and educational experience for visitors to the islands.

Center programs encourage young school children to develop a respect for microscopic life and towering trees and understand the importance of protecting the environment. In addition to the school programs, the Hawaii Nature Center provides nature education programs for families and adults on weekends. These include guided interpretive hikes, nature adventures, and Earth care projects. The Center's weekend and community programs have reached more than 25,000 island families a year. The Hawaii Nature Center is a private nonprofit organization with funding coming from corporations, foundations, individuals, as well as private fundraising and donations. Additional program support comes from revenues from the Center's Interactive Nature Museum and Gift Shop. Volunteers are crucial to the Hawaii Nature Center's mission. From coordinating mailings to assisting in teaching the children, Center volunteers donate hours of service and receive recognition in the forms of awards and events just for them. Volunteer support also comes from companies who encourage their employees to participate in Center activities.

Kualoa Ranch — Kaaawa, Hawaii

Kualoa Ranch preserves, protects and enhances the natural beauty and culture of the land, while developing recreational and agricultural enterprises compatible with the environment. Family owned and operated, the Ranch's mission is to be a role model as stewards of the land. Established in 1850, Kualoa is a 4,000 acre working cattle ranch, spread from the steep mountain cliffs to the ocean. Located on the northeastern side of Oahu in the Hawaiian countryside, it is less than an hour from Honolulu. The ranch terrain varies from dense rainforest to broad open valleys, from beautiful white sand beaches to verdant cliff faces. It is truly a paradise for outdoor recreation with many places accessible only by horseback, on an all terrain vehicle, or by hiking. Kualoa is one of the most historically significant destinations on Oahu, and in ancient times, one of the most sacred places on the island.

Hanauma Bay Nature Preserve — Honolulu, Hawaii

Hawaii residents and visitors from all over the world come to Hanauma Bay to observe hundreds of species of fish and other marine organisms in their natural environment. Believed to be 35,000 years old, the Bay recently celebrated its 40th anniversary as the State of Hawaii's first Marine Life Conservation District and underwater park. Located about ten miles from Waikiki, Hanauma Bay is also celebrating a decade-long protection and preservation effort that re-established its pristine marine ecosystem. Established in 1967, Hanauma Bay Nature Preserve was renowned as one of Hawaii's favorite beaches for snorkeling and swimming, and hosted more than one million visitors annually by 1977. By 1988 the number of visitors increased to three million annually—about ten thousand per day. Residents and tourists brought in by the busload fed the fish in the natural lagoons, and soon the number of fish increased enormously. In addition, the visitors damaged the coral by walking on it.

In 1990, in response to the large numbers of people and the impact to the coral reef ecosystem, the Honolulu City government enacted regulations that closed the bay one day each week for maintenance. An education program for visitors was established, and a community group organized to protect the Bay. Today visitor attendance is strictly regulated and limited to approximately three thousand per day to help protect the Bay's fragile ecosystems. Each visitor is required to visit a Marine Education Center at the entrance of the park to view an orientation film that explains the importance of protecting the largest standing biomass of reef fish on Oahu. They are taught to not step on the reef, take fish from the bay, smoke on the beach, drive their car to the beachfront or feed the fish. These regulations create a necessary balance between man and nature. Eighteen years after the regulations were established, reefs are regenerating, and more than two hundred varieties of marine animals can be seen in the clear ocean waters. In addition, less than three percent of visitors stand on the reef.

Hanauma Bay Education Program

The Hanauma Bay Education Program has been in operation for the past fifteen years through the University of Hawaii Sea Grant College. It was created to educate the public on Hawaii's marine environment to enhance appreciation for and promote understanding and stewardship of Hanauma Bay. Educational activities are carried out by several paid staff and over one hundred volunteers who greet visitors, show the park's mandatory educational film, staff information desks in the education center and at the beach kiosk, and conduct orientations for permitted groups. The educational programs cover topic areas such as marine ecology, marine biology, and geology. The Friends of Hanauma Bay, a non-profit organization, supports the University of Hawaii's Hanauma Bay Education Program by conducting tours of the Bay and staffing the education desk.

**U.S. Field Study Speakers
Listed in order of appearance**

Tuesday 12 May 2009

The Nature Conservancy Worldwide Office

**Mr. Bradford Northrup
Deputy to the Chief Conservation Programs Officer**

Mr. Bradford Northrup joined The Nature Conservancy in 1971. He served as Vice-President of the Conservancy's Eastern Region for 8 years, supervising land acquisition and stewardship activities. As Vice-President for the Support Service Division, he directed the organization's finances, human resources program, data processing, and training and planning activities. In 1989 he became Director of the new Caribbean Regional Program, building the Conservancy's programs in Dominican Republic, Jamaica, Belize, and U.S. Virgin Islands. He was appointed Deputy Director of the Latin America and Caribbean Program in 1996. In 1999, he became Director of Conservation Operations for the International Program. Between 1995 and 2000, he was also the Director of the Conservancy's Parks in Peril Program, the flagship conservation program of the Latin America and Caribbean Division. In 2001, he assumed responsibility for the newly created Mid-Atlantic Division managing the Conservancy's programs in Delaware, Maryland, New Jersey, Pennsylvania, Virginia, and West Virginia. Mr. Northrup became the Director of the Conservation Strategies Group in 2004, and Deputy to the Chief Conservation Programs Officer in 2009.

**Mr. Michael Dennis
Vice President/Director of Conservation Real Estate**

Mr. Michael Dennis oversees the land acquisition activities of The Nature Conservancy. He manages the project review and approval process for large scale and financially complicated transactions throughout the world. Mr. Dennis also develops partnerships and relationships with other public and private conservation organizations undertaking land acquisition for conservation purposes. In addition, Mr. Dennis helps develop cutting edge conservation strategies and secures philanthropic resources to support such conservation work. Mr. Dennis previously served as the Vice President/General Counsel for The Nature Conservancy. He holds a bachelor's degree from Northeastern University; law degree from Suffolk, University Law School; and an advanced Tax Law degree from Boston University Law. He is a member of the Land Trust Alliance Board and North American Wetlands Conservation Council.

**Mr. Randall Curtis
Senior Policy Advisor for Infrastructure, International Government Relations Division**

Mr. Randall Curtis currently advises the development and implementation process of The Nature Conservancy's international infrastructure policy program. Until recently he was the Director of Multilateral and Bilateral Institutions, where he worked to build relations with other institutions, such as United States Agency for International Development and the Global Environment Facility, to increase funding for biodiversity conservation worldwide. Mr. Curtis joined the Conservancy in 1987 as Director of the Costa Rica Country Program. As director for the Conservation Finance and Policy program in Latin America and the Caribbean, he was involved in arranging debt-for-nature swaps by using commercial and bilateral debt to establish environmental trust funds of proceeds from swaps and other sources. He also helped international partners with carbon finance projects, watershed management tools, and private lands conservations tools such as water use fees and easements and land trusts. Fluent in Spanish and French, he is a graduate of Bowdoin College and has a master's of business administration degree from the American Graduate School of International Management.

Rare ~ Inspiring Conservation

**Ms. Sonita Prussner
Director, Strategic Partnerships**

Ms. Sonita Prussner is the Director of Strategic Partnerships at Rare where she oversees the global Pride recruiting and partnership development. She has nine years of strategy, marketing, and project management experience in the private and non-profit sectors. Prior to joining Rare, Ms. Prussner led consulting projects for

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

organizations like The World Bank and Microsoft. She holds a bachelor's degree from the University of Virginia and a master's degree with distinction from The Johns Hopkins School of Advanced International Studies. Ms. Prussner grew up in Indonesia and the Philippines, and speaks Mandarin and German.

Wednesday 13 May 2009

New York State Adirondack State Park Agency

Mr. Keith McKeever
Director, Public Relations

As Director of Public Relations, Mr. Keith McKeever handles media and public inquiries, conducts outreach programs, drafts speeches and counsels the Park Agency and Governor's Press Office on public relations matters. Previously Mr. McKeever worked as a Program Administrator with the Governor's Office for Small Cities managing community development block grants for the Adirondack region. He started his professional career with Rensselaer County as a Planner. He is a graduate of the State University of New York, Plattsburgh where he received a degree in environmental science.

Mr. Stephen Erman
Special Assistant for Economic Affairs

Mr. Stephen Erman advises the Adirondack Park Agency on regional economic issues, analyzing the market, financial, economic and fiscal issues of development projects being reviewed by the Agency. He also provides economic development planning assistance to communities within the Park, including information on the Agency's regulatory procedures. Mr. Erman previously served as a Development Consultant in Washington, D.C., working primarily on industrial and commercial market research, strategic planning related to community revitalization, and organizational planning. He was involved in a number of projects related to military base closures and realignments, including planning for civilian reuse of the Plattsburgh Air Force Base in advance of its closure in 1995. Mr. Erman received a bachelor's degree in political science and a master's degree in public administration from the State University of New York, Albany.

U.S. Forest Service

Mr. Michael Liu
District Ranger, Finger Lakes, National Forest, New York

Mr. Michael Liu has 26 years of experience with the Forest Service, working in Alaska, Colorado, Montana, Idaho, and California in the areas of fire salvage and rehabilitation, ecosystem management, environmental planning and analysis, timber management, and recreation planning and management. Mr. Liu has also worked in the U.S. Forest Service International Programs Division, organizing study tours in the U.S. He has taught biology at the middle school level and courses in public participation principles and techniques. He has experience in wilderness management, wild and scenic river evaluations, campground and ski area development, eco-tourism, transportation planning, fisheries and wildlife habitat improvement projects, mine reclamation, and erosion control. Since 2000, Mr. Liu has volunteered his time to help native minority groups in Southwest China with community development projects. Mr. Liu received a bachelor's degree in forest management from Humboldt State University, California and completed post-graduate studies in forest engineering from Oregon and Washington State Universities.

Thursday 14 May 2009

Town of Keene, New York

Mr. William Ferebee
Town Supervisor

Mr. William Ferebee was elected Keene Town Supervisor in 2005, after having served for four years on the Keene Town Board. Mr. Ferebee has lived in Keene since 1968 and graduated from Keene Central High

School. After serving in the U.S. Army and Army Reserves, he ran a business in Virginia for several years. In 1976 Mr. Ferebee returned to Keene to raise his children, having decided that the quality of life in the Adirondacks and the school system in Keene was best for his family. He has been an active member of the Keene community for more than 30 years since returning to Keene.

New York State Adirondack Park Agency

Mr. Lawrence Phillips

Associate Project Analyst, Forest Resources

Mr. Lawrence Phillips has been with the Adirondack Park Agency for three years as a forester and a soil scientist. He is a small non-industrial private forest landowner and serves on the town of Schroon's Planning Board. Mr. Phillips worked for eighteen years in private industry with International Paper, the world's largest forest products company. At International Paper he worked as a research forester, a Corporate Environmental Compliance Auditor, and pulp and paper mill air pollution Control Engineer. He received bachelor degrees in forest management from Southern Illinois University and soil science from University of Florida.

Mr. Richard Weber

Assistant Director, Planning Division

Mr. Richard Weber provides advice on natural resource, wilderness and wild land management for the public lands in the Park, and serves as the primary staff person responsible for the administration of the Adirondack Park State Land Master Plan, coordinating the development and review of unit management plans, administration of the State land classification process, and the periodic review and updating of the Master Plan with the Department of Environmental Conservation. He also provides recommendations on impact assessment of the natural and social carrying capacity of the State lands in the Park as well as general advice on long-term planning and policy development. In the 1980's he worked as a National Park Planning Advisor to the Republic of Panama providing training, planning assistance, and community outreach support as the Co-Director of the Darién National Park, World Heritage Site and Biosphere Reserve. Mr. Weber attended Paul Smith's College and received a degree in landscape architecture from the State University of New York College of Environmental Science and Forestry.

New York State Department of Environmental Conservation

Captain John Streiff

Regional Forest Ranger

Captain John Streiff has worked for the New York State Department of Environmental Conservation for fourteen years. He oversees a staff of 42 forest rangers and six lieutenants which is augmented by fourteen seasonal assistant forest ranger positions in the summer. The Forest Rangers are responsible for over 2.2 million acres of state land and over 430,000 acres of state-owned easements. Most of the state lands are part of the Adirondack Forest Preserve. The rangers educate the public on the protection of natural resources, enforce state laws regarding the protection and use of the lands, and ensure the safety of the people who use these lands. They also take the lead in New York State for preventing and suppressing wild land forest fires and conducting search and rescue operations on both State lands and private lands. Captain Streiff holds an associate degree from Paul Smith's College and has a background in forest management and timber harvesting.

Mr. Kris Alberga

Supervising Forester

Mr. Kris Alberga oversees five senior foresters, a forestry technician and a Geographic Information System cartographer. He is responsible for managing almost one million acres (400,000 hectares) of public lands owned by the State of New York, most in the Adirondack Forest Preserve. Mr. Alberga completed the High Peaks Wilderness Unit Management Plan, and still maintains responsibility for managing the 200,000 acre High Peaks Wilderness. Mr. Alberga is a member of the Society of American Foresters, Search and Rescue of the Northern Adirondacks, a Licensed Guide for the Wilderness First Responder associated with the Wilderness Medical Associates, and a Leader with the Boy Scouts of America. He received a bachelor's degree in resource management and environmental biology from the State University of New York College of Environmental Science and Forestry, and a master's degree in forest resource management from the same institution, where his studies focused on the sociological aspects of recreation management.

Friday 15 May 2009

New York State Adirondack Park Agency

Mr. Daniel Spada

Supervisor, Natural Resource and Scientific Services Division

Mr. Daniel Spada has 23 years of experience in wetlands ecology, management, landscape impact analysis and cumulative impact assessment. He served as an adjunct lecturer at Cornell University, State University of New York, Plattsburgh and Paul Smith's College. He is a member of the Ecological Society of America, Society of Wetland Scientists, Dragonfly Society of the Americas, and the New York Flora Association. Mr. Spada holds a Society of Wetland Scientists Professional Wetland Scientist certification. He earned a master's degree from the State University of New York College of Environmental Science and Forestry.

Mr. Michael Brennan

Environmental Educator

Mr. Michael Brennan is a certified science and social studies teacher and has experience as both a teacher and administrator. His work includes facility management, education program development and delivery, as well as instruction of environmental interpretation skills for the National Association for Interpretation as a Certified Interpretive Trainer. In addition, Mr. Brennan is a lecturer in Forest Recreation at Paul Smiths College, and a regular presenter at workshops for environmental professionals and classroom teachers throughout the region. He has a bachelor's degree in geography and a masters of science in environmental science with a focus on ecology and communication.

Paul Smith's College – The College of the Adirondacks

Dr. Andrew Egan

Dean of Forestry, Natural Resources and Recreation

Dr. Andrew Egan is Professor and Dean of the Division of Forestry and Natural Resources at Paul Smith's College. His research focuses on the effects of logging on soil physical properties and water quality, as well as on the regions logging community. In 2004, he was a Senior Fulbright Scholar posted at Tribhuvan University's Institute of Forestry in Pokhara, Nepal where he taught and conducted research in community forestry and silviculture. His first full-time job after graduating from forestry school was as a logger felling and skidding timber for several years for a logging contractor in central New Hampshire. He was later a landowner assistance forester for a saw mill in New Hampshire and a consulting forester. Dr. Egan holds a bachelor's degree in psychology from Fairfield University, a master's degree in forestry from the University of New Hampshire, and a doctorate in forestry from Penn State University.

New York State Department of Environmental Conservation

Captain Larry DiDonato

Regional Chief Environmental Conservation Officer

Captain Larry DiDonato has worked for the New York State Department of Environmental Conservation's Division of Law Enforcement for 23 years. Captain DiDonato began his career as an Environmental Conservation Officer in Long Island where he focused on the enforcement of environmental quality regulations and the protection of marine resources—fish, shellfish, and crustaceans. He spent the next ten years in the Northern Catskill Mountains with enforcement efforts on hunting, fishing, trapping and environmental quality regulation. In 1988, he was assigned to New York City, supervising officers and investigators who conducted large scale felony investigations in illegal commercialization of fish and shellfish. He and his officers conducted interstate and citywide environmental initiatives such as "Operation Trashnet" and "Operation CleanSweep" where over 200 solid waste management facilities and waste carting operations were the focus of a sustained series of enforcement actions, resulting in the closure of several landfills. Captain DiDonato received a bachelor's degree in criminal justice administration and planning, and a master's degree in public administration from John Jay College of Criminal Justice.

Mr. Lance Durfey
Regional Wildlife Manager

Mr. Lance Durfey was recently became a Regional Wildlife Manager. Previously he served as a fisheries biologist on Lake Champlain where he oversaw a multi-agency sea lamprey control treatment team which included establishing stream and delta treatment strategies. He also served as the general fisheries biologist for Essex County, New York. Mr. Durfey's other posts include serving in the Peace Corps in the Philippines' Bureau of Fisheries and Aquatic Resources; conducting research as a Fish and Wildlife Technician and Teaching Assistant/Lab Technician at Cornell University; and working as an Assistant District Fishery Biologist with the Kentucky Department of Fish and Wildlife Resources in Frankfort, Kentucky. Mr. Durfey earned his bachelor's degree in natural resources from Cornell University and his master's degree in natural resources from Ohio State University.

Mr. Bill Schoch
Regional Fisheries Manager

Mr. Bill Schoch has served as Fisheries Manager since 2003. His responsibilities include a broad range of fish management, and aquatic resource protection activities, in northeastern New York. From 1984 to 2003 he worked as a Fisheries Biologist in the DEC. Mr. Schoch received a bachelor's degree from Cornell University and a master's degree in zoology from Oklahoma State University.

Mr. Edward Grant
Hatchery Manager

Mr. Edward Grant has been employed at Department of Environmental Conservation for 30 years. For the past ten years he has been Manager of the Adirondack Fish Hatchery which raises all the landlocked Atlantic salmon for New York State. Mr. Grant participated in the renovation of the hatchery. He is a member of the American Fisheries Society, Saranac Lake Fish and Game Club, and Town of Santa Clara Zoning Board of Appeals. He studied environmental science and fish and wildlife management at Plattsburgh State University and undergraduate research work at Miner Institute.

Mr. Nik McKay
Conservation Operations Supervisor

As a Conservation Operations Supervisor, Mr. McKay oversees seventeen campgrounds and recreation programs managed out of the Ray Brook Headquarters, writing management plans for individual campgrounds and coordinating construction projects. He has served on several Department of Environmental Conservation state-wide committees including Operations Training Committee, Nature Recreation Program Committee, and Water Safety Committee. He is the current President of Civil Service Employees Association Local 017 Union. Mr. McKay holds a bachelor's degree in natural resources management and policy from Paul Smiths College.

Leading EDGE Wilderness Programs

Mr. Jack Drury
Vice President and Director, Wilderness Recreation Leadership Program

Mr. Jack Drury, past president of the Wilderness Education Association, has taught wilderness courses since 1979 and has been an Education By Design Institute coordinator affiliated with the Antioch New England Graduate School since 1992. He was director of the Wilderness Recreation Leadership Program and associate professor at North Country Community College in Saranac Lake for seventeen years. Mr. Dury is co-author of wilderness leadership texts: *The Backcountry Classroom: Lesson Plans for Teaching in the Wilderness*, and *The Camper's Guide to Outdoor Pursuits: Finding Safe, Nature Friendly, Comfortable Passage Through Wild Places*.

The Wild Center — Natural History Museum of the Adirondacks

Ms. Stephanie Ratcliffe **Executive Director**

When Ms. Stephanie Ratcliffe joined the Wild Center four years before its opening, she served as Director of Operations and Programs and played a leading role in the creation of the Museum's current exhibits and programs including all the interior live exhibits and the multimedia presentations. She was in charge of a number of the major initiatives for future exhibits, such as the Wings Over the Adirondacks Experience and the newly planned Snowshoe Lodge Winter Habitat Exhibit and Classroom. Prior to joining the Wild Center, Ms. Ratcliffe worked at the Maryland Science Center as Senior Director for all exhibitions, and the Brooklyn Children's Museum. Ms. Ratcliffe started her career in museums at the Smithsonian Institution in Washington. She currently serves on the National Program Committee of the Association of Science and Technology Centers, the leading organization serving science museums internationally. Ms. Ratcliffe earned a bachelor's degree in art marketing/museum management and a master's degree in museum education from George Washington University.

Ms. Jen Kretser **Director of Programs**

Ms. Jen Kretser oversees all education program development and interpretive programs for the Wild Center. She previously served as Director of Education for the Adirondack Mountain Club for seven years, focusing on responsible recreation, stewardship, and interpretive planning. Her past experiences include teaching and developing programs at the Cincinnati Zoo, the Aspen Center for Environmental Studies, the Adirondack Park Visitor's Interpretive Center, and Zoo New England in Boston. She has also participated in a professional exchange to Siberia to work with park officials on creating education programs for their National Park system. Ms. Kretser graduated from Cornell University and earned a master's degree in Environmental Science and Education from Antioch New England Graduate School.

Saturday 16 May 2009

Mr. Joe Moore **Owner, Placid Boatworks**

Mr. Joe Moore is an accomplished woodworker with experience in everything from furniture building to home construction. He has an extensive background in outdoor sports, having competed in road cycling, nordic skiing and biathlon. He formed Placid Boatworks to build high quality hand finished hulls in design, materials and performance. Mr. Moore worked for more than thirteen years with an Adirondack not-for-profit environmental group whose mission was to preserve and protect the wild, natural character of New York's Adirondack Park. He served as a Park Policy Analyst, reviewing state and private project proposals as well as land use and water protection policies. Most recently, Mr. Moore started Moore Environmental Consulting. His latest project—working with a grant administered by the New York State Adirondack Park Agency—identified and implemented methods to improve parking and hiker safety along the busy Route 73 highway corridor. Mr. Moore's educational background is in geography and natural resource management and administration.

Mr. Arthur Lussi **President, Lake Placid Vacation Corporation and Board member, Adirondack Park Agency**

Mr. Art Lussi strives to balance economic development and conservation in his work. He has served as President of Lake Placid Vacation Corporation since 1996, leading the restoration of fifteen of the Historic Lake Placid Club Cottages. In addition, he has worked on North Elba/Lake Placid Comprehensive Plan and coached ski racing with the New York Ski Education Foundation since 1991. For over ten years he has served as Chairman of Community Advisory Board to Olympic Regional Development Authority. He is an Adirondack Park Agency Commissioner and continues to serve on the Adirondack Park Agency Board. Mr. Lussi holds a bachelor's degree from Dartmouth College and a law degree from Syracuse Law School.

Ms. Mary Hotaling
Executive Director, Historic Saranac Lake

Ms. Mary Hotaling has been the Executive Director of Historic Saranac Lake for the last eleven years. Her time is dedicated to restoring Dr. E. L. Trudeau's historic Saranac Laboratory for the Study of Tuberculosis (1894) to open it to the public as a center from which to interpret the architecture and history of Saranac Lake. In addition, Ms. Hotaling served on the New York State Board for Historic Preservation, a part of the Office of Parks, Recreation and Historic Preservation. She holds a master's degree in historic preservation from the University of Vermont.

Dr. David Woodland
President and Director, Trudeau Institute

Dr. David Woodland is a noted immunologist and member of the Trudeau Institute faculty. He heads a federally funded research program directed at understanding immunity to respiratory virus infections (such as influenza) to develop novel vaccine strategies. He has published more than 150 articles in basic science journals, is regularly invited to present data at national and international meetings, and serves on federal committees that prioritize research applications for funding. Dr. Woodland is a member of the American Association of Immunologists and the Faculty of 1000, serves as Section Editor for the *Journal of Immunology*, and is Editor-in-Chief of the peer-reviewed journal *Viral Immunology*. He holds joint appointments as Professor of Medicine at the University of Vermont and Associate Professor at Albany Medical College. Dr. Woodland was appointed President and Director of the Trudeau Institute in 2008.

Monday 18 May 2009

American Prairie Foundation/Reserve

Ms. Meg Nicolo
Special Events Manager

Ms. Meg Nicolo's career path has been diverse, from Ski Instructor in Taos, New Mexico, Marketing and Events Coordinator at Mt. Hood Meadows in Oregon, to Executive Assistant to the Chief Global Knowledge Officer at KPMG, and later to the Chief Executive Officer of Lyons Group Entertainment in Boston. Ms. Nicolo moved to Bozeman three years ago from Stowe, Vermont where she was working for Burton Snowboards planning global sales meetings. Ms. Nicolo holds a bachelor's degree from Hobart and William Smith College.

Mr. Sean Gerrity
President

Mr. Sean Gerrity joined the American Prairie Foundation as its first board member in 2001 and became President in 2002. He is committed to building a meaningful legacy for future generations by securing an enormous intact ecosystem to inspire others about the artistic and spiritual nature of natural systems. Prior to his work with the American Prairie Foundation, Mr. Gerrity was the President and Co-Founder of the Catalyst Consulting Team. Founded in 1985, Catalyst specializes in organization alignment, strategy development and implementation. From the original three founders, it grew to employ 35 people with offices in Silicon Valley, San Francisco and Washington, D.C. serving customers in North America, Europe, Asia and Latin America with clients from a range of industries including technology, banking, heavy manufacturing, government, entertainment and education. In 1996, Mr. Gerrity returned with his family to his home state of Montana and reduced his involvement with Catalyst to half time to begin exploring ways to contribute more directly to the efforts of non-profits. In 2000 and 2001, he worked part-time with the Entrepreneurs Foundation of Cupertino, California, in the area of venture philanthropy and as the publisher of *The Venture Philanthropist* newsletter. Mr. Gerrity grew up primarily in Great Falls, Montana where he spent summers working on ranches in the Paradise Valley south of Livingston, Montana. He earned his bachelor's degree in psychology from Montana State University in Bozeman.

Mr. Scott Laird
Director, Field Operations

Mr. Scott Laird joined the American Prairie Foundation in 2004. He has worked in the conservation arena in many roles including as a guide and wildlife technician for Vermejo Park Ranch and a conservation officer with the New Mexico Department of Game and Fish. He worked for fourteen years with the Rocky Mountain Elk Foundation as a Regional Field Director, Lands Program Manager and Director of Private Land Stewardship. Mr. Laird earned a bachelor's degree in wildlife ecology and master's degree in veterinary parasitology from Oklahoma State University.

Mr. Bryce Christensen
Manager, Reserve Operations

Mr. Bryce Christensen joined the American Prairie Foundation in 2008. He supervises all activity on the reserve. Mr. Christensen previously worked for the Montana Fish, Wildlife, and Parks for 33 years. He retired as the Regional Supervisor in Miles City, Montana.

World Wildlife Fund Great Northern Plains Program

Dr. Kyran Kunkel
Senior Fellow

Dr. Kyran Kunkel currently works with the World Wildlife Foundation on bison, pronghorn and cougar restoration projects in the American Prairie Foundation Reserve. He also serves as Affiliate Assistant Professor in the Department of Biology and Wildlife at the University of Alaska, Fairbanks, University of Montana, and Utah State University. In addition, Dr. Kunkel directs and is Senior Scientist for the Conservation Science Collaborative, a non-profit that collaborates with public agencies and non-governmental organizations on conservation science efforts. He serves on the International Union for Conservation of Nature, a bison specialist group and is helping write the Action Plan for North America Bison Conservation. He received his undergraduate degree in wildlife science from South Dakota State University, his master's degree from the University of Minnesota and his doctorate in wildlife biology from the University of Montana.

Mr. Dennis Jorgensen
Program Officer

Mr. Dennis Jorgensen became the first World Wildlife Fund Program Officer to be based within the American Prairie Restoration Project Area in 1977. His work has taken him to the tundra of the Northwest Territories as well as the Boreal forests and the prairies of Alberta. Mr. Jorgensen comes from Calgary, Alberta, Canada where he worked as a consulting wildlife biologist for government and industry. He is currently completing his master's thesis on the effects of human activities on the migrations of prairie rattlesnakes in southeastern Alberta.

Charles M. Russell National Wildlife Refuge

Mr. Randy Matchett
Supervising Wildlife Biologist

Mr. Randy Matchett has worked on the Charles M. Russell National Wildlife Refuge for 22 years, directing wildlife research and monitoring. Prior to coming to eastern Montana, he researched moose habitat selection in northwestern Montana, worked to prevent golden eagle depredations on domestic sheep in southwestern Montana, studied bull elk survival in northern Idaho, and built a GIS and custom software to support natural resource management on the Flathead Indian Reservation in western Montana. Mr. Matchett has worked on the recovery of the highly endangered black-footed ferret, accompanied by detailed research on the ecology of plague and conservation of black-tailed prairie dogs. In addition to monitoring population levels of the many big game species on the wildlife refuge, he also coordinates a surveillance program for Chronic Wasting Disease and has monitored the West Nile virus impacts to sage grouse. Mr. Matchett has bachelor's and master's degrees from the University of Montana.

University of Montana

Dr. Rich Harris

**Professor of Wildlife Conservation, Department of Ecosystem and Conservation Science,
College of Forestry and Conservation, University of Montana**

Dr. Rich Harris has worked on conservation issues in western China since 1988, and has been involved in wildlife conservation research in Afghanistan and Mongolia. He serves as the Editor of *Ursus*, the international technical journal focusing on the world's eight species of bears. Dr. Harris also served as the Programmatic Wildlife Biologist for the Montana Department of Natural Resources. After graduating from Bennington College with a degree in music, Dr. Harris taught in public schools for three years before returning to pursue a master's degree in wildlife biology at the University of Montana. Dr. Harris worked as a research biologist for the U.S. Fish and Wildlife Service in Alaska and taught wildlife briefly at the University of Minnesota before returning again to obtain his doctorate degree.

American Prairie Foundation/Reserve

Mr. Bill Willcutt

Wildlife and Reserve Manager

Mr. Bill Willcutt has served as Wildlife and Reserve Manager for the American Prairie Foundation for the past three years. He is a third generation Montana cattle rancher. He previously owned a KOA campground and was a snowcoach guide in Yellowstone National Park.

Tuesday 19 May 2009

Mr. George Horse Capture, Jr.

**American Prairie Foundation National Council Member; Leader of the Gros Ventre/White
Clay People**

Mr. George Horse Capture, Jr., is a member and leader of the Gros Ventre/White Clay People and lives in Hays, Montana on the Fort Belknap Indian Reservation. Mr. Horse Capture's main interests are working with tribal youth, as well as with people of all different cultures and races. He focuses on prairie restoration. Mr. Horse Capture became involved with the American Prairie Foundation in 2005 and joined the National Council in 2007. He is leading efforts to establish a collaborative partnership with Gros Ventre and Nakota Nations. He is a founding member of the White Clay Society, Executive Director of the non-profit One Step Further, and a member of the Hays School Board and the Gros Ventre Treaty Committee.

Wednesday 20 May 2009

Bowdoin National Wildlife Refuge

Ms. Carmen Luna

Refuge Manager

Ms. Carmen Luna has 30 years of conservation experience in the fields of environmental education and public use, wildlife research, endangered species recovery. As Refuge Manager for the Bowdoin National Wildlife Refuge for the past 19 years, Ms. Luna supervises four permanent employees and six seasonal employees. She is responsible for the management, protection, and administration of seven Waterfowl Production Areas (45,982 acres), and wetland and grassland conservation easements (46,754 acres). Prior to coming to Bowdoin, she worked on the San Luis National Wildlife Refuge in Los Banos, California and the Arrowwood National Wildlife Refuge in Pingree, North Dakota. Ms. Luna graduated from the University of California in Santa Barbara with a bachelor's degree in zoology.

Mr. Bruce Barbour
Wildlife Biologist, Partners for Fish and Wildlife Program

Mr. Bruce Barbour focuses on waterfowl and wetland conservation, waterfowl biology, waterfowl habitat management, enhancement, and preservation, wetland and waterfowl policy, conservation/environmental issues and advocacy. Prior to coming to the Bowdoin National Wildlife Refuge, he served as a Wildlife Biologist with the U.S. Fish and Wildlife Service at the San Joaquin River National Wildlife Reserve, California, the Florida Game and Fresh Water Fish Commission, and the Fish and Wildlife Service at Kodiak, Alaska. Mr. Barbour has also worked as a Vertebrate Museum Curator at the University of South Florida, a Research Biologist at University of South Florida, and a Research Biologist at the Florida State Museum of Natural History at the University of Florida. He has published numerous papers on eight Florida endangered mammals (red-cockaded woodpeckers, limpkins, Florida mottled ducks, hooded mergansers, terns, puffins, Florida scrub jays, California Condors), the wetlands of the prairie pothole region of North America and the Pantanal of Brazil, and others. He has a bachelor's and master's degrees in zoology from the University of South Florida.

Charles M. Russell National Wildlife Refuge

Mr. Barron Crawford
Project Leader

Mr. Barron Crawford oversees the management of seven national wildlife refuges totaling 1,100,000 acres. His main duties are to provide overall leadership and guidance to a full time staff of 28 and fifteen to eighteen seasonal employees, serve as liaison to various partners, state agencies and other land management agencies, provide fiscal oversight of the stations budget, and provide a field managers perspective concerning policy formulation to the Regional and National Fish and Wildlife Service Leadership. Mr. Crawford has worked at the Charles M. Russell National Wildlife Refuge for four years and has been with the U.S. Fish and Wildlife Service for sixteen years and the National Park Service for two years. In addition, he served as Deputy Project Leader at Tennessee National Wildlife Refuge in Paris, Tennessee; Deputy Project Leader and Project Leader at Prime Hook National Wildlife Refuge in Milton, Delaware; Primary Assistant Refuge Manager at Chincoteague National Wildlife Refuge in Chincoteague, Virginia; Wildlife Biologist in Asheville, North Carolina; and Biological Science Technician in Great Smoky Mountains National Park. Mr. Crawford has worked on endangered species recovery projects, shorebird and waterfowl management, and focusing on restoring ecological processes that influence vegetative communities. He holds bachelor's and master's degrees in wildlife and fisheries science from the University of Tennessee.

Dr. Robert Skinner
Wildlife Biologist

Dr. Robert Skinner is a Wildlife Biologist who specializes in general ecology and the relationships between plants, herbivores, and predators. Prior to coming to the Charles M. Russell National Wildlife Refuge, Dr. Skinner served as a Wildlife Biologist at the Innoko National Wildlife Refuge in Alaska. In addition, he was posted as an Area Wildlife Biologist at the U.S. Bureau of Indian Affairs in Montana where his principal assignment was a grizzly bear research project on the Blackfoot Reservation. Dr. Skinner also served as a Land Operations Officer at the Crow Reservation, Montana and the Lower Brule Sioux Reservation, Lower Brule, South Dakota. Dr. Skinner holds a bachelor's degree in agriculture, a master's degree in zoology, and a doctorate in wildlife management.

Mr. Mike Granger
Fire Management Officer

Mr. Mike Granger has been involved in all aspects of refuge management and is primarily responsible for managing one of the largest, most complex fire programs in the Fish and Wildlife Service. Mr. Granger is an adamant proponent of prescribed fire and has rehabilitated well over 100,000 acres with prescribed fire during his 25 year career. He is a Type 1 Burn Boss, which is qualified to manage the most difficult prescribed fires. In addition to his other fire duties, Mr. Granger serves on the Northern Rockies Type One Incident Management Team—one of only thirteen such teams in the nation—whose duties include responding to the most complex

incidents throughout the country. He has ignited prescribed fire or fought wildfires from northern Alaska to southern Florida and many states in between. Before joining the U.S. Fish and Wildlife Service in 1988 as a Fire Management Officer at the Koyukuk National Wildlife Complex in Galena, Alaska, he was employed as a Wildlife Biologist at Fort Sill Military Base in Oklahoma and Fort Huachuca Military Base in Arizona. Mr. Granger received a bachelor's degree in biology from Oklahoma State University and a master's degree in wildlife biology from Sul Ross State University.

Mr. Bill Berg
Deputy Project Leader

Mr. Bill Berg has spent 29 years with the U.S. Fish and Wildlife Service. During most of this time he has worked in wildlife refuges in Montana and North Dakota. For the past 18 years, Mr. Berg has been stationed at the Charles M. Russell Wildlife Refuge. He has witnessed significant habitat improvements on the refuge over the years, especially riparian and upland habitat. He has also seen conservation and recreation interests grow in importance and priority in the Missouri River Breaks.

Mr. Matt deRosier
Manager, Sand Creek Wildlife Station

Mr. Matt deRosier has worked at the Charles M. Russell Wildlife Refuge for the past ten years. Prior to coming to Montana, he worked for the U.S. Fish and Wildlife Service at refuges in Illinois, Utah, and North Dakota.

Friday 22 May 2009

Yellowstone National Park

Ms. Suzanne Lewis
Park Superintendent

As the superintendent of Yellowstone National Park, Ms. Suzanne Lewis manages more than 2.2 million acres, a staff of 400, and an annual base budget of more than \$33 million. Before coming to Yellowstone, Ms. Lewis was superintendent at Glacier National Park. She began her National Park Service career as a seasonal park ranger in 1978 at Gulf Islands National Seashore. During her 11-year tenure there she served in a variety of positions including park technician, park historian, supervisory park ranger and management assistant to the superintendent. Later Ms. Lewis assisted the United Nation's efforts to preserve, protect and educate Haitians in the preservation of natural and cultural resources. Her other posts include Superintendent for Christiansted National Historic Site and Buck Island Reef National Monument in the U.S. Virgin Islands; First Superintendent for the newly created Timucuan Ecological and Historic Preserve, Jacksonville, Florida; and Superintendent for the Chattahoochee River National Recreation Area in Atlanta, Georgia. Ms. Lewis holds a bachelor's degree in American History from the University of West Florida.

Mr. Colin Campbell
Deputy Superintendent, Park Operations

Mr. Colin Campbell has 28 years of experience in national park management. He has served as Deputy Superintendent for Park Operations of Yellowstone National Park since 2007. Prior to arriving in Yellowstone, he was the Superintendent of Padre Island National Seashore in Texas where management challenges included oil and gas exploration and extraction, as well as one of the Kemp's Ridley Sea Turtle Recovery Program. Mr. Campbell also spent twelve years at Grand Teton National Park as a Law Enforcement Specialist, Chief Ranger and Acting Deputy Superintendent. He has a bachelor's degree in natural resource management from Cal Poly San Luis Obispo.

Ms. Christine Lehnertz
Deputy Park Superintendent

Ms. Christine Lehnertz oversees natural and cultural resources, human, financial and business resources, public information, planning, and compliance. She has been with the National Park Service since 2007. Prior to joining the park service, Ms. Lehnertz spent seventeen years with the U.S. Environmental Protection Agency in Denver and Washington D.C. She began her environmental career as a biologist in 1985 with the Colorado Division of Wildlife, collecting fisheries data and trapping large mammals. She also worked seasonally for the U.S. Forest

China Protected Areas Leadership Alliance Project
Strengthening Leadership Capacity for Effective Management of China's Protected Areas

Service and the U.S. Fish and Wildlife Service, surveying lakes and streams, and trapping small mammals. Ms. Lehnertz earned a bachelor's degree in environmental biology from the University of Colorado at Boulder.

Mr. John Sacklin
Management Assistant

Mr. John Sacklin is Management Assistant at Yellowstone National Park. Prior to his current position, he was Chief of Planning and Compliance at Yellowstone and held a similar position at Redwood National Park. Mr. Sacklin has assisted The Nature Conservancy and government agencies in the People's Republic of China in planning for proposed nature reserves and national parks in the Yunnan Province. He has an undergraduate degree in forestry and outdoor recreation from the University of Washington and a master's degree in business administration from Humboldt State University. He is a member of the American Planning Association and the National Association of Recreation Resource Planners.

Mr. Steven Iobst
Chief of Maintenance

For the past six years Mr. Steve Iobst has directed the largest park-based asset management program in the National Park Service including 2,800 assets, \$16 million operational maintenance budget, an annual program of projects averaging \$35 million, and 210 full-time employees. In 1997 Mr. Iobst returned to the greater Yellowstone area as Assistant Superintendent at Grand Teton National Park and served as Acting Superintendent at Grand Teton from 2000 to 2002. From mid-2002 until arriving at Yellowstone for a second tour, Mr. Iobst had the leadership role for Yellowstone and Grand Teton in developing future winter use in the two parks. His other posts include Project Supervisor in Shenandoah National Park; Management Assistant to the Superintendent for Planning and Development at Yellowstone Park; Chief of Facility Management for Rocky Mountain National Park; and Acting Chief of Facility Management in Washington, D.C. Mr. Iobst began his career with the National Park Service as a student Engineer. He holds a bachelor's degree in civil engineering from Virginia Tech.

Mr. Roy Renkin
Vegetation Management Specialist, Yellowstone Center for Resources

Mr. Roy Renkin has worked in the park for 30 years in the areas of forestry, fire, and vegetation management, research, and outreach, and is the park's long-term fire behavior analyst. He has 20 scientific publications and a variety of interests in fire behavior and ecology, forest insects, grizzly bear food habits, and elk herbivory in riparian and upland vegetation communities. Mr. Renkin received his bachelor's degree in nature conservation from California University of Pennsylvania and master's degree in zoology from North Dakota State University.

Saturday 23 May 2009

Yellowstone National Park

Mr. Rick McIntyre
Biological Technician

Mr. Rick McIntyre has worked for the National Park Service since 1975 at a number of National Parks including Denali, Glacier, Big Bend, Death Valley, Joshua Tree, and Yellowstone. He has been part of Yellowstone's Wolf Restoration Project since 1998. Mr. McIntyre is the author of four books, including *A Society of Wolves* and *War Against the Wolf*.

Monday 26 May 2009

Yellowstone National Park

Ms. Katy Duffy, Senior Interpretive Ranger

Ms. Katy Duffy has served as Yellowstone National Park's West District Interpretive Ranger for ten years, stationed at Old Faithful for the past six years. Prior to coming to Yellowstone, Ms. Duffy spent 16 years as a naturalist in Grant Teton National Park. She holds master's degrees in ecology from Rutgers University and in biochemistry from Temple University. She is also a licensed bird-bander who studies owls, diurnal raptors, and songbirds.

Wednesday 27 May 2009

East-West Center

Mr. Raymond Burghardt Director, East-West Seminars Program

Mr. Raymond Burghardt joined the East-West Center in 2005. Prior to coming to the East-West Center, he served as the U.S. Ambassador to Vietnam, the director of the American Institute in Taiwan, consul general in Shanghai, deputy chief of mission at the U.S. Embassies in Manila and Seoul, and as political counselor in Beijing. Mr. Burghardt's earlier career included an assignment on the National Security Council staff as special assistant to President Reagan and senior director of Latin American Affairs. He also served at the U.S. Embassies in Honduras and Guatemala. He was a Peace Corps volunteer in Colombia before joining the Foreign Service. Mr. Burghardt received a bachelor's degree from Columbia University and did graduate study at Columbia University's School of International and Public Affairs. He speaks Vietnamese, Mandarin Chinese and Spanish.

U.S. National Park Service

Mr. Bryan Harry Former Pacific Area Director, National Park Service

Mr. Bryan Harry retired from the National Park Service after over 50 years. He served as Ranger-Biologist and Park Naturalist at Grand Teton and Yellowstone National Parks, and Chief Park Naturalist and Valley Manager at Yosemite National Park. He came to Hawaii as Superintendent of Hawaii Volcanoes National Park in the early 1970's. Throughout his career he has been involved in the planning of the National Park System. In Alaska he supervised field studies and draft legislation leading to the Alaska Lands addition to the National Park Service. He was also involved with studies leading to North Cascades and American Samoa designations as National Parks. He is a founding member of the Cooperative Ecosystem Studies Unit at the University of Hawaii. Mr. Harry holds a bachelor's degree from the University of Michigan and a master's degree from Colorado State, both in wildlife management.

Thursday 28 May 2009

Hawaii Nature Center

Mr. Gregory Dunn Executive Director

Mr. Gregory Dunn has served as Executive Director of the Hawaii Nature Center since 2002, joining after more than three years as Executive Director of the Atherton Branch of the YMCA of Honolulu. He brings to the Nature Center a strong track record in facility management, fund development, recruitment and project management. Previously he was Operations Manager for two new retail projects in Hawaii, the Barnes and Noble Superstores of Honolulu and NikeTown Honolulu.

Ms. Casey Carmichael
Director of Oahu Operations

Ms. Casey Carmichael serves as the Director of Oahu Operations at the Hawaii Nature Center. Previously, she was a Donor Relations Manager for The Nature Conservancy and worked as an Americorps volunteer for The Imago Earth Center, a non-profit environmental education organization in Ohio. This experience sparked her passion for educating the public about the importance of a healthy environment. Ms. Carmichael holds a bachelor's degree in environmental studies from Hawaii Pacific University.

Ms. Pauline Kawamata
Volunteer Program Manager

Ms. Pauline Kawamata serves as the Volunteer Program Manager at the Hawaii Nature Center. Ms. Kawamata has been an active member of the Executive Council for the Network of Volunteer Leaders since 1995 and was the organization's president in 2004. Ms. Kawamata holds a bachelor's degree in Hawaiian studies and a master's degree in education, secondary education, social studies.

Saturday 30 May 2009

Kualoa Ranch

Mr. Peter Hansen
High Ropes Course Leader

Mr. Peter Hansen has been teaching at Punahou School for 20 years. He helped build the original ropes course at Kualoa Ranch and for the last 17 years has maintained it. His training comes from several workshops sponsored by Project Adventure. Working with a wide range of groups from the Woman's National Volleyball team, high school, at risk children, and many different adult groups, he has the ability to help make the leadership and team building experience challenging and fun. Mr. Hansen has a bachelor's degree in art education and a master's degree in school counseling.

Sunday 31 May 2009

Hanauma Bay Nature Preserve

Mr. Alan Hong
Park Manager

Mr. Alan Hong has been responsible for administering and managing the daily operations of the Hanauma Bay Nature Preserve since 1990, overseeing a staff of 40 groundskeepers, cashiers, park attendants, and administrative staff. Hanauma Bay Nature Preserve is Hawaii's first state marine protected area. He previously worked as the parks ocean recreation specialist for the City and County of Honolulu Department of Parks and Recreation.

Ms. Elizabeth Kumabe Maynard
Leader, Hanauma Bay Education Program

Ms. Elizabeth Kumabe Maynard is responsible for the Hanauma Bay Education Program. Through the University of Hawaii Sea Grant College, she has developed education outreach and interpretive programs to enhance visitor and community experiences to the Bay since 1991. She also recruits, trains, and maintains a strong volunteer corps of community members. The programs emphasize awareness of human ecological footprints through proper reef etiquette, and foster community stewardship of marine protected areas and wise use and management of the island's coastal areas. Ms. Kumabe Maynard has conducted and managed numerous professional development and community coastal education workshops and projects in Hawaii, Micronesia and American Samoa. She has a bachelor's degree in marine science from the University of Hawaii and a master's degree from the University of Hawaii's School of Education.

**U.S. Field Study Speaker
Contact Information**

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