

PROGRAM

1st World Congress of Agroforestry

*Working Together for
Sustainable Land Use Systems*

27 June – 2 July 2004

Orlando, Florida, USA



Congress website: conference.ifas.ufl.edu/wca/

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CONGRESS COMMITTEES

Global Organizing Committee

Chair

P. K. Nair, University of Florida/IFAS, Gainesville, FL, USA

Co-Chairs

Dennis Garrity, World Agroforestry Centre/ICRAF, Nairobi, Kenya

Gregory Ruark, USDA-FS, National Agroforestry Center, Lincoln, NE, USA

Howard-Yana Shapiro, Mars, Incorporated, Hackettstown, NJ, USA

Members

Michael Bannister, University of Florida/ IFAS, Gainesville, FL, USA

Catalino Blanche, USDA-CSREES, Washington, DC, USA

Craig Elevitch, Permanent Agriculture Resources, Holualoa, HI, USA

Pedro Ferreira, CATIE, Turrialba, Costa Rica

H. E. “Gene” Garrett, University of Missouri-Columbia, Columbia, MO, USA

Andrew Gordon, University of Guelph, Guelph, Ontario, Canada

Russell Haines, RIRD Corp., Kingston, ACT, Australia

Reinhard Hüttl, Technical University of Cottbus, Cottbus, Germany

James Lassoie, Cornell University, Ithaca, NY, USA

Bjorn Lundgren, International Consultant, Stockholm, Sweden

Felipe Manteiga, IICA, Washington, DC, USA

Eric Rosenquist, USDA-ARS, Beltsville, MD, USA

Syaka Sadio, FAO of the United Nations, Rome, Italy

Panjab Singh, ICAR, New Delhi, India

Wayne Smith, University of Florida/IFAS, Gainesville, FL, USA

Neal Van Alfen, University of California-Davis, Davis, CA, USA

Hiroyuki Watanabe, Kyoto University, Kyoto, Japan

Symposium Organizers

Agroforestry and Food Security - **Syaka Sadio**, FAO of the United Nations, Rome, Italy

Biodiversity - **Jeff McNeely**, IUCN, Gland, Switzerland; **Goetz Schroth**, CIFOR, Alter do Chao Santarem, Brazil

Carbon Sequestration - **Florencia Montagnini**, Yale University, New Haven, CT, USA

Ecological Basis of North American Agroforestry - **Andrew Gordon**, University of Guelph, Guelph Ontario, Canada

Public/Private Partnership in Agroforestry Research and Development - **Eric Rosenquist**, USDA-ARS, Beltsville, MD, USA and **Howard-Yana Shapiro**, Mars, Incorporated, Hackettstown, NJ, USA

Technology Transfer - **Michael Gold**, Missouri Agroforestry Center, University of Missouri, Columbia, MO, USA

Trees and Markets - **Diane Russell**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

Water Issues - **Greg Ruark**, National Agroforestry Center, USDA-FS, Lincoln, NE, USA

Session Organizers

- Agroforestry Adoption** - *Evan Mercer*, USDA Forest Service, Research Triangle Park, NC, USA
- Agroforestry and Food Security** - *Michael Bannister*, University of Florida/IFAS, Gainesville, FL, USA
- Agroforestry, Carbon Sequestration, and Landscape Ecology in Western Europe** - *Reinhard Huettl*, Technical University of Cottbus, Cottbus, Germany
- Agroforestry Education** - *August Temu*, World Agroforestry Centre/ICRAF, Nairobi, Kenya; *Michael Jacobson*, Penn State University, University Park, PA, USA
- Agroforestry for Health and Nutrition (AIDS/HIV)** - *Brent Swallow*, World Agroforestry Centre/ICRAF, Nairobi, Kenya, *Christine Holding Anyonge*, Forest Policy and Institutions Service (FONP), Forest Department, FAO, Rome, Italy
- Agroforestry in Semiarid Regions** - *Amadou Niang*, World Agroforestry Centre/ICRAF, Bamako, Mali
- Biodiversity** - *Goetz Schroth*, CIFOR, Alter do Chao Santarem, Brazil; *Jeff McNeely*, IUCN, Gland, Switzerland
- Biophysical Interactions** - *Shibu Jose*, University of Florida/IFAS, Milton, FL, USA
- Carbon Sequestration and Environmental Benefits** - *Louis Verchot* and *Brent Swallow*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Climate Change** - *Louis Verchot*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Decision Support Tools** - *Eddie Ellis*, University of Florida/IFAS, Gainesville, FL, USA
- Ecoagriculture** - *Sara Scherr*, Forest Trends, Washington, DC USA
- Economic Analysis** - *Janaki Alavalapati*, University of Florida/IFAS, Gainesville, FL, USA
- Environmental Amelioration** - *Vimala Nair*, University of Florida/IFAS, Gainesville, FL, USA
- Land Owners' Session** - *Craig Elevitch*, Agroforestry Net, Inc. Holualoa, HI, USA; *Michael Bannister*, University of Florida/IFAS, Gainesville, FL, USA
- Land Tenure and Gender Issues** - *Frank Place*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Local Agroforestry Knowledge in Global Context** - *Fergus Sinclair*, University of Wales, Bangor, UK; *Laxman Joshi*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Managing Genetic Diversity** - *Kwesi Atta-Krah*, IPGRI, Nairobi, Kenya; *Frank Place*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Mechanization in Agroforestry** - *Manfred Denich*, Center for Development Research, University Bonn, Bonn, Germany
- Medicinal and Aromatic Plants** - *Manuel Palada*, University of the Virgin Islands, Kingshill, St Croix, US Virgin Islands, USA
- Policy and Institutions** - *Oghenekome Onokpise*, Florida A&M University, Tallahassee, FL, USA
- Poverty Alleviation and Sustainability** - *Gerald Murray*, University of Florida/IFAS, Gainesville, FL, USA
- Scaling up of Agroforestry Benefits** - *Steven Franzel*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Short Rotation Woody Crops, Phytoremediation** - *Donald Rockwood*, University of Florida/IFAS, Gainesville, FL, USA
- Small Farm Soil Fertility Management Strategies** - *Bashir Jama*, World Agroforestry Centre/ICRAF, Nairobi, Kenya
- Tree and Component Management** - *Bruce Wight*, USDA- National Agroforestry Center, Lincoln, NE, USA; *Samuel Allen*, University of Florida/IFAS, Gainesville, FL, USA
- Tree Domestication** - *Roger Leakey*, James Cook University, Cairns, Australia
- Trees in Fragmented Landscapes** - *Fergus Sinclair*, University of Wales, Bangor, UK; *Celia Harvey*, CATIE, Turrialba, Costa Rica
- Tropical Homegardens** - *B. Mohan Kumar*, Kerala Agricultural University, Thrissur, India

Local Organizing Committee University of Florida/IFAS

- *Janaki Alavalapati*
- *Shibu Jose*
- *Alan Long*
- *Vimala Nair*
- *Mandy Stage*
- *Sarah Workman*

Pre-Congress Workshop Organizer

- *Shibu Jose*, University of Florida/IFAS, Milton, FL, USA

Pre-Congress Field Tour Organizer

- *Julie Rhoads*, University of Missouri Center for Agroforestry, Columbia, MO, USA

Wednesday Field Trip Organizers

- *Alan Long*, University of Florida/IFAS, Gainesville, FL, USA
- *Don Rockwood*, University of Florida/IFAS, Gainesville, FL, USA
- *Sarah Workman*, University of Florida/IFAS, Gainesville, FL, USA

*We gratefully acknowledge the support
of the following organizations*

- ◆ **Agriculture and Agri-Food Canada (AAFC), Prairie Farm Rehabilitation Administration (PFRA), Shelterbelt Centre**
- ◆ **Agroforestry Net, Inc., Hawaii**
- ◆ **Association for Temperate Agroforestry (AFTA), USA**
- ◆ **Canadian Forest Service (CFS), Canada**
- ◆ **Center for Development Research (ZEF Bonn), University of Bonn, Germany**
- ◆ **Center for Subtropical Agroforestry, SFRC, IFAS, University of Florida**
- ◆ **Conservation International (CI)**
- ◆ **FAO Forestry Department, Rome, Italy**
- ◆ **Federal Ministry of Research and Education, Germany**
- ◆ **Ford Foundation**
- ◆ **Institute of Food and Agricultural Sciences (IFAS), University of Florida**
- ◆ **Inter-American Institute for Cooperation on Agriculture (IICA)**
- ◆ **MARS Incorporated**
- ◆ **National Oceanic and Atmospheric Administration (NOAA), USA**
- ◆ **Office of the Vice President for Research and Graduate Education, University of Florida**
- ◆ **Rural Industries Research & Development Corporation (RIRDC), The Joint Venture Agroforestry Program – (JVAP) –Australia**
- ◆ **School of Forest Resources and Conservation (SFRC), IFAS, University of Florida**
- ◆ **Technical University of Cottbus, Germany**
- ◆ **United States Agency for International Development (USAID)**
- ◆ **United States Department of Agriculture (USDA) Agricultural Research Service (ARS)**
- ◆ **University of Missouri Center for Agroforestry (UMCA)**
- ◆ **USDA Cooperative State Research, Education, & Extension Service (CSREES)**
- ◆ **USDA Forest Service, International Programs (IP)**
- ◆ **USDA Forest Service - Rocky Mountain Research Station (RMRS)**
- ◆ **USDA National Agroforestry Center (NAC)**
- ◆ **USDA Natural Resources Conservation Service (NRCS)**
- ◆ **World Agroforestry Centre (ICRAF)**

AGENDA

Sunday, 27 June 2004

PRE-CONGRESS EVENTS

- 9:00am-12:00pm **Pre-congress Workshops**
Workshop A – Silvopastoral Practices
[Lobby Level - Grand Ballroom-Salon VI]
Workshop B – Decision Support Systems in Agroforestry
[Lobby Level - Grand Ballroom-Salon VII]
- 12:00pm-3:30pm **Satellite Event**
Agroforestry Technology Transfer and Extension Working Group
[Mezzanine Level - Azalea / Begonia] (Event details on p. 88)

CONGRESS EVENTS

- 9:00am-7:00pm **Congress Registration Open** [Lobby Level - International Foyer]
12:00pm-9:00pm **Internet Cafe Open** [Lobby Level - Crystal Room]

CONGRESS INAUGURATION [Lobby Level - Grand Ballroom - Salons IV & V]

Presiding: **Dr. Richard Jones**, Senior Vice President for Agriculture and Natural Resources (Interim), University of Florida

- 4:00pm **Welcome – Dr. P. K. Nair**, Chair, Organizing Committee, University of Florida/IFAS, Gainesville, FL, USA
- 4:30pm **Remarks – Dr. Richard Jones**
- 4:45pm **Introduction of Inaugural Speaker – Dr. E. T. York**, Chancellor Emeritus, State University System of Florida
- 4:50pm **Inaugural Speaker: Dr. Norman Borlaug**, President, Sasakawa Africa Association – ***Agriculture and the Environment: Bridging the Divide through Agroforestry***
- 5:30pm **Concluding Remarks – Dr. Richard Jones**
- 5:40pm **Release of Congress Compendium – Dr. Norman Borlaug**
- 5:50pm **Congress Announcements – Dr. Michael Bannister**, Member, Organizing Committee, University of Florida/IFAS, Gainesville, FL, USA
- 6:00pm-8:00pm **Welcome Reception** [Poolside]
- 7:00pm-10:00pm **Poster Session I Set-up** (Poster and Display Room Open for Poster Session I Setup) [International Ballroom]

Monday, 28 June 2004

- 7:00am-7:00pm **Congress Registration Open** [Lobby Level - International Foyer]
7:00am-12:00pm **Poster Session I Set-up** (Poster and Display Room Open for Poster Session I and Exhibitor Display Setup) [International Ballroom]
7:00am-8:00pm **Internet Cafe Open** [Lobby Level - Crystal Room]
7:30am-8:15am **Morning Coffee Available** [Foyer Area]

PLENARY SESSION: ENHANCEMENT OF ENVIRONMENT AND LANDSCAPE

[Lobby Level - Grand Ballroom - Salons IV & V]

Presiding: **Dr. Dennis P. Garrity**, D-G, ICRAF/ World AF Centre, Nairobi, Kenya

- 8:30am **Plenary Speaker: Dr. M. S. Swaminathan**, UNESCO Chair in Ecotechnology, MSSRF, Chennai, India
- 9:30am **Break**

Monday, 28 June 2004 (continued)

10:00am-12:00pm	<u>Concurrent Symposia</u> Symposium I - Biodiversity [Lobby Level - Grand Ballroom - Salons IV & V] (Symposium details on p. 33) Symposium II - Ecological Basis of North American Agroforestry [Lobby Level - Grand Ballroom – Salons I-III] (Symposium details on p. 33)
12:00pm	Boxed Lunch Provided [International Ballroom]
1:30pm-3:00pm	<u>Concurrent Sessions</u> Session A1 - Agroforestry Education [Lobby Level - Grand Ballroom - Salon VI] (Session details on p. 39) Session A2 - Biophysical Interactions [Lobby Level - Grand Ballroom -Salons IV & V] (Session details on p. 39) Session A3 - Ecoagriculture [Lobby Level - Grand Ballroom -Salon VII] (Session details on p. 40) Session A4 - Economic Analysis [Lobby Level - Grand Ballroom -Salon III] (Session details on p. 40) Session A5 - Tree Domestication I [Lobby Level - Grand Ballroom - Salons I & II] (Session details on p. 41) Session A6 - Trees in Fragmented Landscapes [Lobby Level - Grand Ballroom- Salon VIII] (Session details on p. 41)
3:00pm-3:30pm	Break [International Ballroom]
3:30pm-5:00pm	<u>Concurrent Sessions</u> Session B1 - Agroforestry, Carbon Sequestration, and Landscape Ecology in Western Europe [Lobby Level - Grand Ballroom- Salon VI] (Refer session details on p. 42) Session B2 - Poverty Alleviation and Sustainability [Lobby Level - Grand Ballroom - Salons IV & V] (Refer session details on p. 42) Session B3 - Scaling up of Agroforestry Benefits [Lobby Level - Grand Ballroom - Salon III] (Refer session details on p. 43) Session B4 - Tree Domestication II [Lobby Level - Grand Ballroom- Salons I & II] (Refer session details on p. 43) Session B5 - Tropical Homegardens [Lobby Level - Grand Ballroom-Salon VII] (Refer session details on p. 44)
5:00pm	Break
5:30pm-7:30pm	Formal Poster Session I and Exhibit Displays [Lobby Level - International Ballroom] (Poster directory on pp. 57-70; Exhibitor directory on pp. 85-87) - <i>Poster authors/presenters to be present near their posters during these time periods.</i>
7:30pm-9:30pm	Poster Session I Presenters to Remove Presentations
<u>SATELLITE EVENTS</u>	
5:30pm-7:30pm	Association for Temperate Agroforestry (AFTA) [Lobby Level - Grand Ballroom - Salon VI] (Description on p. 88)
5:30pm-7:30pm	Conservation International Book Release [Mezzanine Level - Camellia/Dogwood] (Description on p. 89)
6:00pm-7:30pm	U.S. 1890 University Agroforestry Consortium Meeting [Mezzanine Level -Azalea/ Begonia]

Tuesday, 29 June 2004

7:00am-7:00pm **Congress Registration Open** [Lobby Level - International Foyer]

7:00am-12:00pm **Poster and Display Room Open for Poster Session II Set-up**
[Lobby Level - International Ballroom]

7:00am-8:00pm **Internet Cafe Open** [Lobby Level - Crystal Room]

7:30am-8:15am **Morning Coffee Available** [International Ballroom]

PLENARY SESSION: POLICY, SOCIAL, INSTITUTIONAL ISSUES OF AGROFORESTRY

[Lobby Level - Grand Ballroom - Salons IV & V]

Presiding: **Dr. Gregory Ruark**, Director, USDA National AF Center, Lincoln, NE

8:30am Plenary Speaker: **Hon. James Moseley**, Deputy Secretary, United States
Department of Agriculture, Washington, DC, USA

9:30am **Break**

10:00am-12:00pm **Concurrent Symposia**

Symposium I - Trees and Markets

[Lobby Level - Grand Ballroom - Salons I-III] (Symposium details on p. 34)

Symposium II - Carbon Sequestration

[Lobby Level - Grand Ballroom - Salons IV & V] (Symposium details on p. 34)

12:00pm **Lunch on you own**

1:30pm-3:00pm **Concurrent Sessions**

Session C1 - Biodiversity

[Lobby Level - Grand Ballroom - Salon IV & V] (Session details on p. 45)

Session C2 - Carbon Sequestration and Environmental Benefits

[Lobby Level - Grand Ballroom - Salons II & III] (Session details on p. 45)

Session C3 - Land Tenure and Gender Issues

[Lobby Level - Grand Ballroom - Salon VII] (Session details on p. 46)

Session C4 - Mechanization in Agroforestry

[Lobby Level - Grand Ballroom - Salon I] (Session details on p. 46)

Session C5 - Short Rotation Woody Crops, Phytoremediation

[Lobby Level - Grand Ballroom - Salon VI] (Session details on p. 47)

3:00pm **Break** [International Ballroom]

3:30pm-5:00pm **Concurrent Sessions**

Session D1 - Agroforestry in Semiarid Regions

[Lobby Level - Grand Ballroom - Salons IV & V] (Session details on p. 48)

Session D2 - Environmental Amelioration

[Lobby Level - Grand Ballroom - Salon VII] (Session details on p. 48)

Session D3 - Land Owners' Session

[Lobby Level - Grand Ballroom - Salon I] (Session details on p. 49)

Session D4 - Managing Genetic Diversity

[Lobby Level - Grand Ballroom - Salon VI] (Session details on p. 49)

Session D5 - Policy and Institutions

[Lobby Level - Grand Ballroom - Salons II & III] (Session details on p. 50)

5:00pm **Break**

Tuesday, 29 June 2004 (continued)

- 5:30pm-7:30pm **Formal Poster Session II and Exhibit Displays**
[Lobby Level - International Ballroom]
(Poster directory on pp. 71-84; Exhibitor directory on pp. 85-87)
- Poster authors/presenters to be present near their posters during these time periods.
- 7:30pm-9:30pm **Poster Presenters to Remove Presentations, Exhibitors to Remove Exhibits**

SATELLITE EVENTS

- 5:30pm-7:00pm **Ecoagriculture Partners: Increasing Productivity, Wild Biodiversity and Ecosystem Services in Agricultural Landscapes**
[Lobby Level- Grand Ballroom, Salon VI] (Description on p. 90)
- 5:30pm-7:30pm **Discussion on Teaching Agroforestry** [Mezzanine Level - Azalea/ Begonia]
(Description on p. 90)
- 5:30pm-7:30pm **Landcare--An Approach to Sustainable Land Use**
[Lobby Level - Grand Ballroom, Salon I] (Description on p. 91)
- 6:00pm-7:00pm **Tree database** [Lobby Level- Grand Ballroom, Salon VII]

Wednesday, 30 June 2004

- 7:00am-1:30pm **Congress Registration Open** [Lobby Level - International Foyer]
- 7:00am-7:00pm **Internet Cafe Open** [Lobby Level - Crystal Room]
- 7:30am-8:15am **Morning Coffee Available** [Foyer Area]

PLENARY SESSION: IMPROVEMENT OF RURAL LIVELIHOODS

[Lobby Level - Grand Ballroom - Salons IV & V]

Presiding: **Dr. Bjorn Lundgren**, Former D-G, ICRAF; Former Director, IFS; Sweden

- 8:30am **Plenary Speaker: Dr. M. Hosny El-Lakany**, Assistant Director-General, Head, Forestry Department -- Food and Agriculture Organization of the United Nations, Rome, Italy
- 9:30am **Break**
- 10:00am-12:00pm **Concurrent Symposia**
- Symposium I - Water Issues**
[Lobby Level - Grand Ballroom - Salons I-III] (Symposium details on p. 35)
- Symposium II - AF and Food Security Panel**
[Lobby Level - Grand Ballroom - Salons IV & V] (Symposium details on p. 35)
- 12:00pm **Lunch on your own**
- 1:30pm **Field Trips** - Field Trips will depart from the Convention Entrance (West of the Grand Ballroom). Field Trips will depart at 1:30pm. All field trips will return to the hotel about 6:00pm. Light refreshments will be provided.
- 1. Agroforestry in an Urbanizing Landscape** (Description on p. 92)
 - 2. Non-Timber Forest Products and Public Land Management** (Description on p. 92)
 - 3. Short-Rotation Woody Crops** (Description on p. 93)

Thursday, 1 July 2004

7:00am-5:00pm **Congress Registration Open** [Lobby Level - International Foyer]

7:00am-3:00pm **Internet Cafe Open** [Lobby Level - Crystal Room]

7:30am-8:15am **Morning Coffee Available** [Foyer Area]

PLENARY SESSION: SCIENCE AND EDUCATION IN AGROFORESTRY

[Lobby Level - Grand Ballroom - Salons IV & V]

Presiding: **Dr. Gene Garrett**, Director, School of Forestry, University of Missouri

8:30am **Plenary Speaker: Dr. P. K. Ramachandran Nair**, University of Florida, Gainesville, Florida, USA

9:30am **Break**

10:00am-12:00pm **Concurrent Symposia**

Symposium I - Technology Transfer

[Lobby Level - Grand Ballroom - Salons IV & V] (Symposium details on p. 36)

Symposium II - Public/Private Partnership in Agroforestry and Development

Panel [Lobby Level - Grand Ballroom - Salons I-III]

(Symposium details on p. 36)

12:00pm **Lunch on your own**

1:30pm-3:00pm **Concurrent Sessions**

Session E1 - Agroforestry Adoption I (Tropical)

[Lobby Level - Grand Ballroom - Salons IV & V] (Session details on p. 51)

Session E2 - Agroforestry and Food Security

[Lobby Level - Grand Ballroom - Salon VII] (Session details on p. 51)

Session E3 - Climate Change

[Lobby Level - Grand Ballroom - Salon I] (Session details on p. 52)

Session E4 - Local Agroforestry Knowledge in Global Context

[Lobby Level - Grand Ballroom - Salon VI] (Session details on p. 52)

Session E5 - Tree and Component Management

[Lobby Level - Grand Ballroom - Salons II & III] (Session details on p. 53)

3:00pm **Break** [International - Grand Foyer]

3:30pm-5:00pm **Concurrent Sessions**

Session F1 - Agroforestry Adoption II (Temperate)

[Lobby Level - Grand Ballroom - Salons IV & V] (Session details on p. 54)

Session F2 - Agroforestry for Health and Nutrition (AIDS/HIV)

[Lobby Level - Grand Ballroom - Salon I] (Session details on p. 54)

Session F3 - Decision Support Tools

[Lobby Level - Grand Ballroom - Salon VI] (Session details on p. 55)

Session F4 - Medicinal and Aromatic Plants

[Lobby Level - Grand Ballroom - Salon VII] (Session details on p. 55)

Session F5 - Small Farm Soil Fertility Management Strategies

[Lobby Level - Grand Ballroom - Salons II & III] (Session details on p. 56)

Thursday, 1 July 2004 (continued)

5:15pm-10:30pm

SeaWorld Event

5:15pm Buses for SeaWorld will depart for SeaWorld at the Convention Entrance.

5:30pm-8:30pm Guests will have over two hours to experience and enjoy the park's shows and exhibits.

8:30pm-10:00pm **Ports of Call** - Guests meet for a reception celebration with tropical hors d'oeuvres and live music

10:00pm All Busses depart for the hotel (arrival back at the hotel at 10:30pm)

NOTE: A shuttle will be available for those who wish to depart early from SeaWorld. The shuttle will depart SeaWorld at the Ports of Call exit at 7:30pm and 8:30pm.

Friday, 2 July 2004

8:00am-12:00pm **Congress Registration Open** [Lobby Level - International Foyer]

8:00am-8:45am **Morning Coffee Available** [Foyer Area]

PLENARY SESSION: AGROFORESTRY: THE NEXT 25 YEARS

[Lobby Level - Grand Ballroom - Salons IV & V]

Presiding: **Dr. Howard Shapiro**, Vice President, Mars Incorporated, NJ, USA

9:00am Plenary Speaker: **Dr. Dennis P. Garrity**, Director General, World Agroforestry Centre (ICRAF), Nairobi, Kenya

10:00am **Break**

10:30pm **Congress Closing**

**INAUGURAL AND PLENARY
SESSIONS**

INAUGURAL SESSION

Session Chair

Richard L. Jones

Institute of Food and Agricultural Sciences
University of Florida

Dr. Richard L. Jones currently serves as Interim Senior Vice President for Agriculture and Natural Resources, Institute of Food and Agricultural Sciences (IFAS) at the University of Florida. Prior to this appointment, he was Dean for Research and Director of the Florida Agricultural Experiment Station, Institute of Food and Agricultural Sciences (IFAS) at the University of Florida. He previously served as Dean of the College of Agriculture and Head of the Department of Entomology at the University of Minnesota.

Dr. Jones is a native of Port Gibson, Mississippi. He received B.S. and M.S. degrees in Entomology from Mississippi State University in 1963 and 1965, and he received a Ph.D. in Entomology from the University of California at Riverside in 1968.



As a faculty member of the Department of Entomology at the University of Minnesota and as research entomologist with the Agricultural Research Service, U.S. Department of Agriculture, Dr. Jones taught courses in insect physiology and insect behavior, and conducted research in the area of insect parasitoid behavior and semiochemicals. During his active research career he authored over 70 publications. His international activities include a Fulbright Scholarship to the Netherlands, PL-480 work in Yugoslavia and scientific evaluations in the People's Republic of China, Russia and Morocco.

Special Stage Guest

E. T. (Travis) York

A native of DeKalb County, Alabama, Dr. E. T. (Travis) York is a former Vice President for Agricultural Affairs, Executive Vice President and Interim President of the University of Florida, and former Chancellor of the State University System of Florida.

Dr. York holds B.S. and M.S. degrees from Auburn University and a Ph.D. from Cornell University, along with honorary Doctor of Science degrees from Auburn University, Ohio State University and the University of Florida. He held teaching, research and administrative assignments at North Carolina State University where he served as head of the Agronomy Department. He was later Director of the Cooperative Extension Service at Auburn University and Administrator of the Federal Extension Service, USDA, in Washington before coming to Florida.



Presidents Kennedy, Johnson, Nixon, Ford, Carter and Reagan gave Dr. York major assignments at the national level. He served two terms on the Board for International Food and Agricultural Development (BIFAD), to which he was appointed by Presidents Carter and Reagan, serving as the Board's chair for three years. He has traveled in more than 80 foreign countries and has served on the Technical Advisory Committee (TAC) of the Consultative Group on International Agricultural Research (CGIAR), and as a consultant for the U.S. State Department, the U.S. Agency for International Development, The White House, the United Nations, foreign governments, many universities, and Rotary International in the fields of education, agriculture and economic development. He was instrumental in securing approval for the global "Freedom from Hunger" fellowship program of Rotary International that allows developing country graduate students to study for advanced degrees in the agricultural sciences.

Dr. York has served the local community in numerous capacities as well. The E. T. York Hospice Care Center, a regional Hospice House which Dr. York helped establish, was named in his honor in 2001. In recognition of his volunteer activities at local, national and international levels, former President Reagan awarded him with The President's Volunteer Action Award Citation. He is also a recipient of Rotary International's "Service Above Self" Award. Dr. York continues his leadership role in business, educational, civic and church groups, locally and internationally.

Inaugural Lecture: Sunday, 27 June 2004

Agriculture and the Environment: Bridging the Divide through Agroforestry

Inaugural Lecture by:

Norman E. Borlaug and *Christopher R. Dowsell*

Sasakawa Africa Association

The application of science and technology to food production and forestry has done much to increase productivity on lands best suited for such uses. In so doing, high-yield agriculture and forestry have preserved land for other uses and helped to protect biodiversity, forests and wetlands. Most environmental degradation in the world today is located in low-income countries, where it is rural and poverty-based. Productivity-enhancing technologies in agriculture and forestry are needed to serve the food and fiber needs of a world population that is growing by 80 million people per year. Agroforestry offers important solutions for eco-rehabilitation and eco-conservation through reforestation on farm, erosion control, water conservation, soil nutrient replenishment and recycling. Agroforestry can also contribute new income-earning opportunities to smallholder farmers, such as woodlots, fruit trees, livestock fodder, and high-value timber trees and medicinal products. Science and technology are not the enemy of the environment—poverty and ignorance are. Biotechnology will play an increasingly important role in future advances in agriculture and forestry, not only to increase productivity but also the dependability and sustainability of production.

Inaugural Speaker

Norman E. Borlaug

Dr. Norman E. Borlaug is a 1970 Nobel Peace Prize recipient for his lifetime work to feed a hungry world, a prerequisite for peace. He is credited with saving more lives than any person who has ever lived.

In 1944, Borlaug joined the Rockefeller Foundation's pioneering technical assistance program in Mexico, where he was a research scientist in charge of wheat improvement. For the next two decades, he worked to solve a series of wheat production problems and to train a generation of young scientists. These improved crop management practices transformed agricultural production in Mexico during the 1940s and 1950s and later in Asia and Latin America, sparking the "Green Revolution" and may well be responsible for saving hundreds of millions of people from starvation.



With the establishment of the International Maize and Wheat Improvement Center (CIMMYT) in Mexico in 1966, Borlaug assumed leadership of the Wheat Program, where he continues to serve as a consultant.

In 1984, Dr. Borlaug joined Texas A&M University and was named Distinguished Professor of International Agriculture. Since 1986, he has also served as President of the Sasakawa Africa Association, and leader of the Sasakawa-Global 2000 agricultural program in sub-Saharan Africa, in partnership with former U.S. President Jimmy Carter, and Yohei and the late Ryoichi Sasakawa.

Borlaug has been awarded 54 honorary doctorate degrees, belongs to the academies of science in 12 nations, and has served on two U.S. Presidential Commissions. He was the driving force behind the establishment of the World Food Prize in 1985, and still serves as Chairman of its Council of Advisors.

Dr. Borlaug is married to the former Margaret Gibson, has a daughter, son, five grandchildren, and three great grandchildren.

PLENARY SESSIONS

Plenary Session I: Monday, 28 June 2004 *Enhancement of Environment and Landscape*

Plenary Lecture:

Agroforestry and Bio-happiness

By:

M. S. Swaminathan

UNESCO Chair in Ecotechnology, MSSRF, Chennai, India

Rapid progress in functional genomics, proteomics, bio-informatics and nano-biotechnology has led to the present century being referred to as the **Biological Century**. It is clear that the uncommon opportunities opened up by recombinant DNA technology for creating novel genetic combinations will lead to an era of bio-happiness only if the technology push is matched by an ecological and ethical pull. The pre-requisites for ushering in an era of bio-happiness include harmony with nature, equity in access to basic human needs, job-led economic growth and sustainable food and water security.

Agroforestry shows the way to reconciling short-term food and livelihood needs with long-term environmental conservation and enhancement. Agroforestry systems of land use and management date back to the early origin of agriculture or settled cultivation. However, modern science has shown how agroforestry systems can be designed for deriving the maximum benefit, on an ecologically sustainable basis, from cubic volumes of soil and air. Such three-dimensional architecture involves the promotion of cooperation and elimination of competition among the genotypes chosen for cultivation in an agroforestry system. In order to avoid genetic homogeneity leading to enhanced genetic vulnerability to biotic and abiotic stresses, it will be useful to establish in major agroclimatic zones "**Agroforestry Genetic Gardens**". Such Genetic Gardens will be *ex-situ* collections of genotypes capable of cooperation in the use of land, water and the atmosphere under different agroclimatic and socioeconomic conditions.

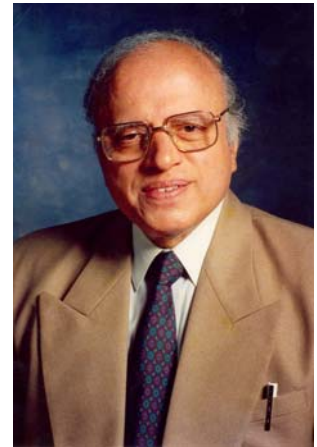
An area of agroforestry which needs greater scientific and extension attention is coastal agroforestry. Sea water constitutes over 97.5 percent of global water resources. Nearly a third of the human population reside near coastal areas. Water is becoming a major constraint in agriculture in several parts of the world. Hence, serious scientific attention to sea water agroforestry through agro-aqua farms is an idea whose time has come. Such agro-aqua farms will involve the cultivation of halophytes like mangrove species, *Salicornia*, *Atriplex* and several palms together with shrimp/prawn culture in canals, using low external input sustainable aquaculture techniques. There are similar opportunities for designing sustainable agroforestry systems for arid, semiarid and hill zones.

There is a need to design efficient crop and tree genotypes for agroforestry through a combination of Mendelian and Molecular Methods of breeding. Examples will be cited from work at MSSRF on breeding novel genetic combinations for arid land and coastal agroforestry.

Plenary Speaker: Monday, 28 June 2004

M. S. Swaminathan

Professor M. S. Swaminathan has been acclaimed by *TIME* magazine as one of the twenty most influential Asians of the 20th century and one of the only three from India, the other two being Mahatma Gandhi and Rabindranath Tagore. He has been described by the United Nations Environment Programme as "the Father of Economic Ecology" and by Javier Perez de Cuellar, Secretary General of the United Nations, as "a living legend who will go into the annals of history as a world scientist of rare distinction". He was Chairman of the UN Science Advisory Committee set up in 1980 to take follow-up action on the Vienna Plan of Action. He has also served as Independent Chairman of the FAO Council and President of the International Union for the Conservation of Nature and Natural Resources.



A plant geneticist by training, Professor Swaminathan's contributions to the agricultural renaissance of India have led to his being widely referred to as the scientific leader of the green revolution movement. His advocacy of sustainable agriculture leading to an ever-green revolution makes him an acknowledged world leader in the field of sustainable food security. The International Association of Women and Development conferred on him the first international award for significant contributions to promoting the knowledge, skill, and technological empowerment of women in agriculture and for his pioneering role in mainstreaming gender considerations in agriculture and rural development. Professor Swaminathan was awarded the Ramon Magsaysay Award for Community Leadership in 1971, the Albert Einstein World Science Award in 1986, the first World Food Prize in 1987, Volvo Environment Prize in 1999, and the Franklin D. Roosevelt Four Freedoms Award in 2000.

Professor Swaminathan is a Fellow of many of the leading scientific academies of India and the world, including the Royal Society of London and the U.S. National Academy of Sciences. He has received 46 honorary doctorate degrees from universities around the world. Recently, he has been elected as the President of Pugwash Conferences on Science and World Affairs. He currently holds the UNESCO Chair in Ecotechnology at the M. S. Swaminathan Research Foundation in Chennai (Madras), India. (web site: <http://www.mssrf.org/>)

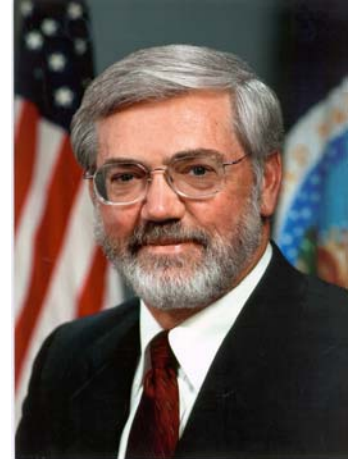
Plenary Session II: Tuesday, 29 June 2004
Policy, Social, and Institutional Issues of Agroforestry

Plenary Speaker

Jim Moseley

Jim Moseley was sworn in as the deputy secretary by U. S. Agriculture Secretary Ann M. Veneman on July 17, 2001. As the deputy secretary, Moseley oversees the day-to-day activities of the U.S. Department of Agriculture, one of the largest and most diverse departments in the federal government. USDA's mission includes the management of traditional farm programs, private lands conservation, domestic food assistance, agriculture research and education, agricultural marketing, international trade, meat and poultry inspection, forestry, and rural development programs.

Prior to this appointment, Moseley, an Indiana farmer with 32 years of hands-on farm experience, was the owner of Ag Ridge Farms, which specializes in grains, and managing partner of Infinity Pork, LLC, which raises hogs. Both are located in Clarks Hill, Indiana.



Moseley has played a key role in developing public policy for agriculture, the environment, and natural resources conservation at the state and national levels. From 1989-1990, he served as agricultural advisor to the administrator of the U.S. Environmental Protection Agency. Moseley previously served at USDA as the assistant secretary of agriculture for natural resources and environment from 1990-1992. In this capacity, he provided leadership to the Forest Service and the Natural Resources Conservation Service (NRCS) on a variety of issues including endangered species, old growth forests, livestock grazing on public lands, wetlands, and policy issues related to the conservation title of the 1990 Farm Bill.

In 1997, he served as chairman of the industry negotiating team for the National Pork Dialogue. Following the 1995 Farm Bill, Moseley served as a consultant to the National Association of State Departments of Agriculture, where he worked with producers and NRCS to develop model resource management plans for farmers and ranchers.

From 1993 to 1995, Moseley served as the director of agricultural services and regulations for the State of Indiana at Purdue University. He also served as a political analyst and member of the editorial board of the *Farm Journal Publications*. Moseley has held membership in numerous professional and academic organizations and has received many awards and honors. In recognition of his service and commitment to agriculture, he was voted the National Outstanding Young Farmer of America for 1982.

Moseley was born in Peru, Indiana. He holds a Bachelor of Science degree in horticulture from Purdue University in West Lafayette, Indiana.

Plenary Session III: Wednesday, 30 June 2004
Agroforestry and Improvement of Rural Livelihoods

Plenary Lecture by:

Hosny El-Lakany

Assistant Director-General (Forestry), FAO, Rome, Italy

Land degradation is among the major challenges confronting sustainable development and the world future. Millions of people depending on forests and tree resources for their subsistence have become more vulnerable.

In the last decades, many developing countries, particularly those in the drylands with low forest cover, have not advanced sufficiently in improving food production, because of the recurrence of drought spells and the vulnerability to degradation of the fragile ecosystems. Moreover, the profound changes in agricultural trade mechanisms and investment is placing smallholders under increased vulnerability to changing their farming systems. They are still facing critical food shortages and a worsening of livelihoods in rural areas where population is increasing at an alarming rate.

Agroforestry, as a science and practice, has the potential to improve livelihoods, because of the capacity of the system to offer multiple alternatives and opportunities to smallholders to improve farm production and incomes, while protecting the agricultural environment.

Since the 1992 Rio Earth summit which recommended in the Agenda 21 a number of actions toward sustainable development, FAO focused on food security and sustainable livelihood as the highest priorities. To this extent, FAO, in collaboration with its partners, launched a number of initiatives to assist the developing countries, particularly those with low forest cover, in designing and strengthening their national agriculture and forestry policies to better address issues related to sustainable development and livelihoods.

Sadly, in spite of valuable efforts, in the 1996 World Food Summit in Rome and the Summit five years later, convened in Rome in 2002, the Heads of State had to note that despite the progress made in several countries, there is a continuing denial of food to 840 million people who are still going to bed hungry every night, because of lack of food, bringing up front the pressing need to reduce the number of hungry people by half by 2015.

The situation calls for concerted and urgent actions at national and international levels to take advantage of the huge potential of agroforestry to promoting best land use practices. However, adoption of agroforestry technologies to effectively improve livelihoods of the smallholders will need national capabilities to adapt their policies and prepare or set up appropriate institutions. In this connection farmers should be central in the process and offered appropriate support. Traditional positive practices, indigenous knowledge and appropriate access to land will necessarily play an important role as well extension and training.

Plenary Speaker: Wednesday, 30 June 2004

M. Hosny El-Lakany

Assistant Director-General

Head, Forestry Department

Food and Agriculture Organization of the United Nations

Dr. M. Hosny El-Lakany, a national of Egypt, was born in 1941. He holds a B.Sc. in Agriculture and an M.Sc. in Forestry from the University of Alexandria, Egypt, and a Ph.D. in Forest Genetics from the University of British Columbia, Canada. In October 2002, Laval University, Canada, conferred a Doctor of Science (DSc) *honoris causa* on Dr. El-Lakany, in recognition of his contribution to world Forestry.

He began his professional career in 1962 as instructor in horticulture, then in forestry at Alexandria University. From 1966 to 1972, he studied and worked in forest genetics in Canada and in 1983 Dr. El-Lakany became professor of forestry and subsequently Chairman of the Forestry Department at the University of Alexandria. From 1983 until 1995, he served as Professor and Director of the Desert Development Centre of the American University in Cairo.

Among his international activities, he spent a year (1980-1981) as a visiting fellow at the Australian National University and was member of a task force to incorporate forestry into the CGIAR system (1987-1988) – a project that led to the establishment of the Centre for International Forestry Research (CIFOR). He then served on the CIFOR Technical Advisory Committee (1992-1996). Throughout his career, Dr. El-Lakany was a consultant to, *inter-alia*, the World Bank, UNDP, UNEP, FAO, IDRC of Canada, USAID and undertook field missions in Africa, Asia, Australia and Latin America.

In 1995, Dr. El-Lakany rejoined FAO as Assistant Directeur de Cabinet and was appointed Assistant Director-General in charge of the FAO Forestry Department in 1998. This is the highest post in forestry in the UN system. The department has about 100 professional staff and an annual budget of nearly US\$60 million. In this capacity, Dr. El-Lakany chairs the Collaborative Partnership on Forests comprised of 14 international organizations

Dr. El-Lakany has published more than 100 scientific papers and co-edited one book. He was awarded the International Forester of the Year Award (1988), the Alexandria University Gold Medal for Academic Achievements (1992) and the Order of The Two Niles from the Republic of Sudan (2001). He is a member of several scientific and professional organizations including the Canadian Institute of Forestry, IUFRO Executive Board, and the External Advisory Group of the World Bank.



Plenary Session IV: Thursday, 01 July 2004
Science and Education in Agroforestry

Plenary Lecture by:

P. K. Ramachandran Nair

University of Florida, Gainesville, Florida 32611, USA

Agroforestry is no longer a “practice in search of science.” During the past 25 years, this traditional and largely ignored land-use activity has been transformed into a robust, science-based approach to addressing problems that cannot be addressed, and are often caused or exacerbated, by intensive land-use practices. Much of this transformation has come about by the infusion of science. We have built up scientific foundations and knowledge-bases on the nature, extent, and processes of tree – crop interactions and their effect on system productivity and environmental impacts in both tropical and temperate regions; there is a clear understanding of the enormous, untapped potential of indigenous trees in providing products, financial gain, and ecosystem services; we have learned from our mistakes to recognize the value of social and societal perceptions to technology innovations, and the need for enabling policies; and we have advanced in developing rigorous methods for doing research and measuring the benefits of agroforestry in both biophysical and socioeconomic arenas. Indeed, today the science of agroforestry is seldom under scrutiny as it once was, and we can make scientifically valid statements about the role and potential of agroforestry. This is a huge step forward from the evasive conjectures and wishful ideas of two decades ago. The challenge today is to capitalize on these gains and move forward in exploiting the myriad benefits of modern science to help us realize the full potentials offered by agroforestry to address the problems of food security and environmental protection.

Educational gains in agroforestry have been relatively less impressive, especially in degree-earning education. Barring a few post-graduate programs, agroforestry is not a recognized track in the traditional powerhouses of education. The interdisciplinary nature of the subject could be one reason; dwindling enrollment in agricultural and forestry programs in general – at least in the industrialized world – needs to be considered too. The demand for university-trained professionals in agroforestry could continue to be met by teaching agroforestry as an essential part of undergraduate curricula in land-use disciplines. Indeed, with the rapidly expanding body of knowledge in scientific agroforestry, it is inevitable that agroforestry acquires an increasing share and dominant place in such curricula. Substantial progress has been made, however, in short-term, non-degree-earning training at various levels, at a number of institutions around the world, and these activities have proved highly successful. In the short-term, strengthening agroforestry education at the post-graduate level and promoting non-degree training at different levels seem to be the strategy to follow.

Plenary Speaker: Thursday, 01 July 2004

P. K. Ramachandran Nair

Dr. P. K. Ramachandran Nair is Distinguished Professor at the University of Florida (UF), and chairman of the Global Organizing Committee for the 1st World Congress of Agroforestry 2004. He is also the Director of the Center for Subtropical Agroforestry, which he established in 2001 at UF's Institute of Food and Agricultural Sciences (IFAS), School of Forest Resources and Conservation. Dr. Nair is one of the founders of ICRAF/World Agroforestry Centre, Nairobi, Kenya, where he worked for nine years before moving to UF in 1987. While working as a multiple-cropping agronomist during the early 1970s in southern India, he developed the multistoried cropping systems with coconuts, which laid the foundations for subsequent developments in the shaded-perennial multistrata system of agroforestry in lowland humid tropics. At ICRAF, Dr. Nair directed a global inventory of agroforestry systems and contributed enormously to developing the crop- and soil-related scientific foundations of agroforestry. At UF, he teaches and conducts research in agroforestry; 14 Ph.D. students have graduated under his supervision.



Professor Nair is the Editor-in-Chief of *Agroforestry Systems* since 1994. He has authored and edited several books and published prolifically in international scientific journals. He has a Ph.D. in agronomy from Pantnagar Agricultural University, India; a Dr. Sc. agr. degree from Goettingen University, Germany (where he was a Senior Humboldt Fellow); and has been a post-doctoral fellow at Rothamsted, England. In 2002, he was awarded an honorary doctorate degree from Kyoto University, Japan.

Professor Nair is a Fellow of the American Association for the Advancement of Science (AAAS); American Society of Agronomy (ASA); Soil Science Society of America (SSSA); the National Academy of Agricultural Sciences, India; and the World Innovation Foundation, UK. He has received the ASA International Agronomy Award, 2000; the SSSA International Soil Science Award, 2001; the Crop Science Society of America's International Service in Crop Science Award 2004 (selected); the UF/IFAS Graduate Teacher/Advisor of the Year Award, 2001; and the UF Foundation Professorship Award 2004.

Plenary Session V: Friday, 02 July 2004
Agroforestry: The Next 25 Years

Plenary Lecture by:

Dennis P. Garrity

Director General, World Agroforestry Centre (ICRAF), Nairobi, Kenya

The science and practice of agroforestry have come of age during the past quarter-century. The compelling future challenge is to apply them to the achievement of the Millennium Development Goals (MDGs), and finally overcome global hunger and poverty. Agroforestry is uniquely suited to contributing to the MDGs. Its R&D agenda should now be realigned to be more effective in fostering a tree revolution on smallholder farms. Several promising agroforestry pathways will increase on-farm food production and income, and help vast numbers of rural poor achieve better food and nutrition security. These options include fertilizer tree systems for farms with limited access to adequate crop nutrients; expanded tree cropping; and improved tree product processing and marketing. These advances will help address lack of enterprise opportunities on small-scale farms. The rate of return to investment in research on tree crops is quite high (88%). But enterprise development and enhancement of tree product marketing are badly neglected. The domestication and commercialization of indigenous tree products is a major new frontier. Agroforestry is now emerging as a central element in achieving the three global environmental conventions of combating desertification (UNCCD), conserving biodiversity (CBD) and addressing climate change (UNFCCC). Success depends on the development of mechanisms to assist the rural poor in better managing their natural resources, and rewarding them for the environmental services that they provide to society. Agroforestry R&D is contributing to virtually all of the MDGs. Recognition for that role will be enhanced by ensuring that more developing countries have national agroforestry strategies, and that agroforestry is a recognized part of their programs to overcome hunger and poverty. Appreciation for agroforestry is rapidly growing in the developed countries, and this will enhance support for its expansion in the developing world as well.

Plenary Speaker: Friday, 02 July 2004

Dennis P. Garrity

Dr. Dennis P. Garrity is Director General of the World Agroforestry Centre (ICRAF) based in Nairobi, Kenya. The Centre's mission is to advance the science and practice of Agroforestry throughout the developing world in order to foster a smallholder tree revolution to help overcome hunger and poverty and create a sustainable environment. He assumed the position in October 2001. He is also currently serving as the Chair of the CGIAR Inter-Centre Working Group on Climate Change.



From 1992 to 2002 Dr. Garrity served as Regional Coordinator of the ICRAF Southeast Asia Programme, based in Bogor, Indonesia. He created the regional programme, and led the systems improvement research in the region to develop and evaluate agroforestry alternatives to slash-and-burn agriculture. He worked extensively on the development of conservation-oriented agroforestry systems for sloping uplands. He has been active in the development of institutional innovations related to farmer-led organizations in sustainable agriculture and natural resources management. He served as agronomist/crop ecologist and head of the Agroecology Unit at the International Rice Research Institute in the Philippines between 1982 and 1992.

Dr. Garrity has a B.Sc. degree in agriculture from Ohio State University, an M.Sc. in agronomy from the University of the Philippines at Los Baños, and a Ph.D. in crop physiology from the University of Nebraska.

CONCURRENT SYMPOSIA

CONCURRENT SYMPOSIA

NOTE: Symposium locations appear in brackets (i.e., [Location])
Presenting authors appear in **bold**.

Page number of the abstract in the Congress Abstract Book are at end of the listings (i.e.,..... 8)

Monday, 28 June 2004 – Concurrent Symposia: 10:00AM-12:00PM

Symposium I – Biodiversity [Lobby Level - Grand Ballroom - Salons IV & V]

Moderator: **Jeff McNeely**, IUCN, Gland, Switzerland

- 10:00AM **Fitting the Pieces Together: The Role of Agroforestry Systems in Conserving Biodiversity in Modified Forest Landscapes – Stewart Maginnis, Ed Barrow and Bob Fisher**, IUCN - The World Conservation Union, Gland, Switzerland 10
- 10:30AM **Agroforestry and Biodiversity Corridors – Gustavo A. B. da Fonseca^{1,2} and Claude Gascon¹**, ¹ Conservation International, Washington, DC, USA, ² Departamento de Zoologia, Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brazil..... 9
- 11:00AM **The Contribution of Shifting Cultivation Landscapes to the Conservation of Tropical Biodiversity: A Forest Ecologist’s Viewpoint – Bryan Finegan**, Tropical Agricultural Centre for Research and Higher Education (CATIE), Turrialba, Costa Rica; **Robert Nasi**, Centre for International Forestry Research (CIFOR), Bogor, Indonesia..... 9
- 11:30AM **Tree Biodiversity, Land Dynamics and Farmers’ Strategies in Southwestern Burkina Faso – Emmanuel Torquebiau and Xavier Augusseau**, CIRAD TERA, Montpellier, France; **Paul Nikiéma**, INERA, Bobo Dioulasso, Burkina Faso 10

Symposium II – Ecological Basis of North American Agroforestry

[Lobby Level - Grand Ballroom – Salons I-III]

Moderator: **Andrew Gordon**, University of Guelph, Guelph Ontario, Canada

- 10:00AM **An Ecological Approach to the Study, Development and Implementation of North American Agroforestry Systems – J. P. (Hamish) Kimmins**, Department of Forest Sciences, University of British Columbia, Vancouver, BC, Canada; Presented by **Clive Welham**, Department of Forest Sciences, The University of Columbia, Vancouver, British Columbia, Canada 17
- 10:30AM **Ecological Processes in Integrated Riparian Management Systems in North America** **Maren Oelbermann**, Department of Earth Sciences, University of Waterloo, Waterloo, ON, Canada; **Andrew M. Gordon**, Department of Environmental Biology, University of Guelph, Guelph, ON, Canada 18
- 11:00AM **Ecological Design, Development and Function of Shelterbelt Systems in North America – Carl W. Mize**, Department of Natural Resource Ecology and Management, Iowa State University, Ames, Iowa, USA; **James R. Brandle**, School of Natural Resources, University of Nebraska, Lincoln, Nebraska, USA 18
- 11:30AM **Some Ecological Aspects of Intercropping and Silvopastoral Systems in North America – Andrew M. Gordon and Naresh V. Thevathasan**, Department of Environmental Biology, University of Guelph, Guelph, ON, Canada 17

Tuesday, 29 June 2004 – Concurrent Symposia: 10:00AM-12:00PM

Symposium I – Trees and Markets [Lobby Level - Grand Ballroom - Salons I-III]

Moderator: **Diane Russell**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

10:00AM	Mobilizing Markets for Agroforestry Products in Developing Countries – D. Russell and S. Franzel , ICRAF, Nairobi, Kenya	28
10:30AM	Tree Domestication and the Market – A. J. Simons , ICRAF, Nairobi, Kenya; R. R. B. Leakey , James Cook University, Cairns, QLD Australia; Z. Tchoundjeu , F. Akinnifesi , J-M Boffa and J. Cornelius , ICRAF	28
11:00AM	Progress and Prospects for Strengthening the Tropical Tree Seed Sector – C. E. Harwood , Australian Tree Seed Centre (CSIRO); P. Sigaud , Food and Agriculture Association (FAO); J. P. B. Lilisøe and A.J. Simons , ICRAF	27
11:30AM	Scaling Up the Impact of Agroforestry: Lessons from Three Sites in Africa and Asia – S. Franzel , G. L. Denning and J. P. B. Lilisøe , ICRAF; A. Mercado , Queensland University and ICRAF	27

Symposium II – Carbon Sequestration [Lobby Level - Grand Ballroom - Salons IV & V]

Moderator: **Florencia Montagnini**, Yale University, New Haven, CT, USA

10:00AM	Carbon Sequestration: An Underexploited Environmental Benefit of Agroforestry Systems – Florencia Montagnini , School of Forestry and Environmental Studies, Yale University, New Haven, Connecticut, USA; P. K. R. Nair , School of Forest Resources and Conservation, University of Florida, Gainesville, Florida, USA	14
10:30AM	Terrestrial Carbon Sequestration in Tropical Forest Ecosystems – R. Lal , Carbon Management and Sequestration Center, The Ohio State University, Columbus, Ohio, USA	14
11:00AM	Agroforestry Systems and Carbon Sequestration: Potential and Perspectives – Markku Kanninen , Center for International Forestry Research (CIFOR), Indonesia	13
11:30AM	Carbon Sequestration in Tropical Agroforestry Systems: Opportunities and Trade-offs – Alain Albrecht¹ , Patrick Mutuo² , Serigne Kandji¹ , Georg Cadisch² , Cheryl Palm³ , Tom Tomich¹ , Frank Place¹ , Meine van Noordwijk⁴ and Louis Verchot¹ , ¹ ICRAF, Nairobi, Kenya, ² Imperial College at Wye, Wye, UK, ³ University of Columbia, New York, USA, ⁴ ICRAF, Bogor, Indonesia	13

Wednesday, 30 June 2004 – Concurrent Symposia: 10:00AM-12:00PM

Symposium I – Water Issues [Lobby Level - Grand Ballroom - Salons I-III]

Moderator: **Greg Ruark**, National Agroforestry Center, USDA-FS, Lincoln, NE, USA

- 10:00AM **Agroforestry in the Riparian Zone for Water Quality – Michael Dosskey**, USDA National Agroforestry Center, Lincoln, Nebraska, USA31
- 10:30AM **Soil Erosion Control, Ecosystem Reconstruction, and Sediment Reduction in the Yellow River Basin of China – Wang Fugui**, Yellow River Conservancy Commission, People's Republic of China 31
- 11:00AM **Riparian Forest Restoration: Improving In-stream Habitat, Ecosystem Function, and the Processing of Water Pollutants on Agricultural Landscapes – Bernard W. Sweeney**, Stroud Water Research Center, Avondale, Pennsylvania, USA32
- 11:30AM **Agroforestry: A Sustainable Option for Waste Water Reuse in Developing Countries Robert Zomer**, International Water Management Institute, Colombo, Sri Lanka32

Symposium II – AF and Food Security PANEL [Lobby Level - Grand Ballroom - Salons IV & V]

Organizer: **Food and Agriculture Organization of the United Nations (FAO)**, Rome Italy

Moderator: **Syaka Sadio**, FAO of the United Nations, Rome, Italy

PANEL:

Chairperson: **Dennis Garrity**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

Moderator: **Charles Clement**, Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, Brasil

- 10:05AM **Agroforestry & Food Security: Challenges in the Developing Countries – D. Mead**, FAO of the United Nations, Golden Bay, New Zealand; **S. Sadio**, FAO of the United Nations, Rome, Italy6
- 10:30AM **Agroforestry & Food Security in Africa – S. Sadio**, FAO of the United Nations, Rome, Italy; **J. C. Dagar**, FAO of the United Nations6
- 10:55AM **Agroforestry for Asian Food Security – B. Mohan Kumar**, College of Forestry, Kerala Agricultural University, Thrissur, Kerala, India; **Muhammed G. Miah**, BSMR Agricultural University, Saina, Ghazipur, Bangladesh5
- 11:20AM **Agroforestry for Improved Livelihoods and Food Security for Diverse Smallholders in Latin America and the Caribbean – Peter E. Hildebrand** and **Marianne Schmink**, School of Natural Resources and Environment, University of Florida, Gainesville, Florida, USA5
- 11:45AM **Summary by Panel Moderator (C. Clement) and Open Discussion**

Thursday, 1 July 2004 – Concurrent Symposia: 10:00AM-12:00PM

Symposium I – Technology Transfer [Lobby Level - Grand Ballroom - Salons IV & V]

Moderator: **Michael Gold**, Missouri Agroforestry Center, University of Missouri, Columbia, MO, USA

10:00AM	The Role of National and State Policy in the Adoption of U.S. Agroforestry – H. E. “Gene” Garrett , University of Missouri, and UM Center for Agroforestry, Columbia, Missouri, USA	21
10:15AM	Linking Agroforestry Research with Technology Transfer, Science with Practice – Michael A. Gold , University of Missouri, and UM Center for Agroforestry, Columbia, Missouri, USA	21
10:30AM	Agroforestry in BC: Technology Transfer for Development of an Emerging Industry – Lisa M. Zabek, Richard D. Hallman and E. L. “Ted” Moore , British Columbia Ministry of Agriculture, Food and Fisheries, BC, Canada	23
11:00AM	Subsidies: The Sacred Cow of Agroforestry Extension? – Rowan Reid , Institute of Land and Food Resources, University of Melbourne, Australia	22
11:30AM	Engaging Landowners and Producers to Transfer Agroforestry Technologies in the Midwestern United States – Scott J. Josiah , State Extension Forester, University of Nebraska-Lincoln, Lincoln, NE, USA	22

Symposium II – Public/Private Partnership in Agroforestry and Development PANEL

[Lobby Level - Grand Ballroom - Salons I-III]

Moderators: **Eric Rosenquist**, USDA-ARS, Beltsville, MD, USA and **Howard-Yana Shapiro**, Mars, Incorporated, Hackettstown, NJ, USA

10:00AM	Panel Speakers (until 12:00PM)	
	- Philippe Petithuguenin , Director, CIRAD/CP, Cocoa Program, CIRAD, France	
	- Dana Roth , Biodiversity and Foreign Affairs Officer (OES/ETC), US Department of State, Washington, DC, USA	
	- James Bond , Director, Environmental, Rural and Social Development, The World Bank, Washington, DC, USA	
	- Sona Ebai , President, Cocoa Producer's Alliance (COPAL), Lagos, Nigeria	

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Moderator: **August Temu**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

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Moderator: **Shibu Jose**, University of Florida/IFAS, Milton, FL, USA

- 1:30PM **Integrating Tree-crop Dynamic Interactions with the HiSAFE Model – *Christian Dupraz*, *Isabelle Lecomte*, *Martina Mayus* and *Rachmat Mulia***, INRA, UMR-SYSTEM, Montpellier, France; ***Grégoire Vincent***, IRD, Montpellier, France; ***Nick Jackson***, Centre for Ecology and Hydrology, Natural Environment Research Council, UK; ***Meine Van Noordwijk***, ICRAF, Bogor, Indonesia177
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Moderator: *Roger Leakey*, James Cook University, Cairns, Australia

- 1:30PM **Putting Participatory Domestication into Practice in West and Central Africa**
 – *Z. Tchoundjeu*, *E. Asaah*, *P. Anegbah*, *A. Degrande*, *P. Mbile* and *C. Facheux*, World Agroforestry Centre (ICRAF), African Humid Tropics Region, Yaoundé, Cameroon; *A. J. Simons*, World Agroforestry Centre, Nairobi, Kenya; *R. R. B. Leakey*, School of Tropical Biology, James Cook University, Cairns, QLD, Australia; *J. Kengue* and *J-M. Fondoun*, Institute of Agricultural Research and Development, Yaoundé, Cameroon403
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Moderators: *Fergus Sinclair*, University of Wales, Bangor, UK; *Celia Harvey*, CATIE, Turrialba, Costa Rica

- 1:30PM **Productive Roles of Trees in Agricultural Landscapes in Central America** – *Muhammad Ibrahim*, *Cristobal Villanueva* and *Celia A. Harvey*, Centro Agronómico Tropical de Investigación y Enseñanza, Turrialba, Costa Rica; *Rene Gomez* and *Marlon Lopez*, Nitalpán, Managua, Nicaragua; *Fergus L. Sinclair*, University of Wales, Bangor, UK..... 372
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Europe [Lobby Level - Grand Ballroom- Salon VI]

Moderator: *Reinhard Huettl*, Technical University of Cottbus, Cottbus, Germany

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Moderator: **Steven Franzel**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

- 3:30PM **Scaling Up the Benefits of Agroforestry in a Developing Country Setting: Emerging Lessons from the Philippines – *Delia Catacutan***, School of Natural & Rural Systems Management, University of Queensland, Brisbane, QLD, Australia & the World Agroforestry Centre, College of Forestry and Natural Resources, University of the Philippines, Los Banos, College, Laguna, Philippines; ***Robert Cramb***, School of Natural & Rural Systems Management, University of Queensland, Brisbane, QLD, Australia.....231
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Moderator: **Tony Simons**, World Agroforestry Centre (ICRAF), Nairobi, Kenya

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Session B5 – Tropical Homegardens [Lobby Level - Grand Ballroom-Salon VII]

Moderator: **B. Mohan Kumar**, Kerala Agricultural University, Thrissur, India

3:30PM	Diversity of Multi-strata Coffee Plantations in Costa Rica: Economic and Ecological Implications – <i>Tamara J. Benjamin</i> and <i>William L. Hoover</i> , Purdue University, West Lafayette, Indiana, USA, CATIE (The Tropical Agricultural Center for Research and Higher Education), Turrialba, Costa Rica	108
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Session C2 – Carbon Sequestration and Environmental Benefits

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Moderators: **Louis Verchot** and **Brent Swallow**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

- 1:30PM **Farming Carbon: An Economic Analysis of Its Viability for Rural Landholders in Western Australia Accounting for Environmental Benefits of Reducing Dryland Salinity – Felicity Flugge**, Cooperative Research Centre for Plant-based Management of Dryland Salinity, University of Western Australia, Western Australia; **Amir Abadi**, Cooperative Research Centre for Plant-based Management of Dryland Salinity, University of Western Australia, and Department of Agriculture, Western Australia 179
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Moderator: ***Donald Rockwood***, University of Florida/IFAS, Gainesville, FL, USA

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Moderator: **Amadou Niang**, World Agroforestry Centre/ICRAF, Bamako, Mali

- 3:30PM **Soil Water Dynamics and Changes in Soil Physical Properties under Agroforestry Systems in Eastern Zambia – *Teddy S. Chirwa*, *Paramu L. Mafongoya* and *Richard Chintu***, World Agroforestry Centre, ICRAF-Zambia Agroforestry Project, Chipata, Zambia.....301
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Moderator: **Vimala Nair**, University of Florida/IFAS, Gainesville, FL, USA

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Moderator: **Craig Elevitch**, Agroforestry Net, Inc. Holualoa, HI, USA

- 3:30PM **Landowner Priorities and How Well Dispersed Tree Systems Fit Them – Roland Bunch**, World Neighbors, Palo Alto, CA, USANA
- 3:50PM **Northern India Agroforestry - A Unique Success Story – Surindar Singh Hara**, Hara Farms, Jagadhri, Haryana, India309
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Moderators: **Kwesi Atta-Krah**, IPGRI, Nairobi, Kenya; **Frank Place**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

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Moderator: ***Oghenekome Onokpise***, Florida A&M University, Tallahassee, FL, USA

- 3:30PM **JICA's Cooperation in Forest Conservation through Agroforestry Activities: Focusing on Empowerment of Farmers – Kazuo Fujishiro**, Japan International Cooperation Agency (JICA), Tsukuba, Ibaraki, Japan; **Asako Takimoto**, School of Forest Resources and Conservation, University of Florida, Gainesville, Florida, USA239
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Thursday, 01 July 2004 – Concurrent Session: 1:30PM-3:00PM**Session E1 – Agroforestry Adoption I (Tropical)** [Lobby Level - Grand Ballroom - Salons IV & V]Moderator: *Evan Mercer*, USDA Forest Service, Research Triangle Park, NC, USA

- 1:30PM **Forestry Extension: Behavioural Research Foundations for the Promotion of Livelihood and Ecology through Agroforestry (A Study from Karnataka State, India)**
– *N. R. Gangadharappa*, *G. T. Prasanna Kumar* and *S. Ganesamoorthi*, University of Agricultural Sciences, Bangalore, India54
- 1:50PM **Assessing Agroforestry Adoption Potential in Cape Verde – A Multivariate Approach**
– *James E. Johnson*, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA; *Orlando J. Delgado*, National Institute for Rural Engineering and Forestry, Santo Antao, Cape Verde.....60
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– *D. Evan Mercer*, Southern Research Station, US Forest Service, RTP, North Carolina, USA; *Ann Snook*, Universidad de Quintana Roo, Chetumal, Quintana Roo, Mexico71
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Session E2 – Agroforestry and Food Security [Lobby Level - Grand Ballroom - Salon VII]Moderator: *Michael Bannister*, University of Florida/IFAS, Gainesville, FL, USA

- 1:30PM **Agroforestry Policy and Food Security in Brazil – Ebenézer Pereira Couto and Arlete Maria da Silva Alves**, Instituto de Economia, Universidade Federal de Uberlândia, Uberlândia, Minas Gerais, Brazil; *Syaka Sadio*, Agroforestry and Land Use Officer, Food and Agriculture Organization of United Nations, Rome, Italy48
- 1:50PM **Agroforestry in Belize and Its Relevance to Food Security – Jorge Cawich**, University of Belize, Central Farm, Cayo District, Belize.....NA
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Moderator: **Louis Verchot**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

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Session E5 – Tree and Component Management [Lobby Level - Grand Ballroom - Salons II & III]

Moderator: ***Bruce Wight***, USDA-National Agroforestry Center, Lincoln, NE, USA

1:30PM	Interspecific Hybrids of <i>Leucaena</i> Species for Fodder and High-value Hardwood – <i>James L. Brewbaker</i>, <i>Xuebo Shi</i> and <i>Wei Guo Sun</i>, University of Hawaii, Honolulu, Hawaii, USA	354
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Moderator: **Evan Mercer**, USDA Forest Service, Research Triangle Park, NC, USA

- 3:30PM **Will French Farmers Adopt Agroforestry Technology in the Near Future? – Fabien Liagre** and **Pierre Savy**, APCA, Land Management and Environmental Strategies Department, Paris, France; **Odette Manchon**, Ministère de l'Agriculture, Bureau de l'environnement et de la gestion de l'espace rural, Paris, France; **Christian Dupraz**, INRA, UMR-SYSTEM, Montpellier, France67
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Moderator: **Brent Swallow**, World Agroforestry Centre/ICRAF, Nairobi, Kenya

- 3:30PM **Keeping Agroforestry Relevant in Situations of High HIV/AIDS Prevalence – Marcela Villarreal**, Population and Development Service, Sustainable Development Department, FAO, Rome, Italy; **Christine Holding Anyonge**, Forest Policy and Institutions Service, Forest Department, FAO, Rome, Italy; **Freddie Kwesiga**, Southern Africa Regional Programme, World Agroforestry Centre (ICRAF), Harare, Zimbabwe; **Brent Swallow**, Environmental Services, World Agroforestry Centre (ICRAF), ICRAF House, Nairobi, Kenya97
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Moderator: **Eddie Ellis**, University of Florida/IFAS, Gainesville, FL, USA

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Moderator: **Manuel Palada**, University Virgin Islands, Kingshill, St Croix, US Virgin Islands, USA

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Moderator: ***Keith D. Shepherd***, World Agroforestry Centre (ICRAF), Nairobi, Kenya

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POSTER SESSION I

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EXHIBITORS

Western Ag Innovations – Booths #1 and #2

Western Ag Innovations markets the use of Plant Root Simulator (PRS)(tm)-probes. The PRS(tm)-probe consists of either cation- or anion-exchange resin membrane encased in a plastic probe, which is inserted into the soil to measure nutrient supply *in situ* with minimal disturbance. The PRS(tm)-probe integrates all of the principal edaphic factors affecting nutrient uptake by plants (i.e., soil moisture and temperature, mineralization, immobilization, free ion activities, buffer power, ion diffusion, etc.), regardless of soil type. The PRS(tm)-probes are a convenient and economical means of quantifying both spatial and temporal variations in nutrient supply rates for all nutrient ions simultaneously; making them an essential tool in agronomic, forestry, and environmental research.

World Agroforestry Centre (ICRAF) – Booth #3

Springer - Kluwer Academic Publishers – Booth #4

Springer - Kluwer Academic Publishers Kluwer is specialized in high-quality English language books and journals for both professional and academic markets. Our new publications always reflect the latest research and provide the reader with state-of-the-art information needed to keep abreast of developments. Kluwer Academic is pleased to display their newest titles in Agroforestry at the first World Congress. Come and visit our display to pick up a free sample of Agroforestry Systems and to browse through our recent publications (which are sold at a considerable discount). As from July Kluwer will be part of Springer, more info on www.wkap.com or www.springeronline.com

National Center for Appropriate Technology - Booth #5

The ATTRA National Sustainable Agriculture Information Service has produced hundreds of publications and other conference and workshop materials on sustainable agriculture, including works on production, marketing, and organic certification. ATTRA's staff of agriculture specialists draws on a wide range of sources, from scientific research to the experiences of farmers in the field. Funded by the USDA, this project of the National Center for Appropriate Technology provides these materials free to farmers, ranchers, educators, and others who serve commercial producers in the United States, its territories, and possessions. For copies, call 800-346-9140 (toll-free) or visit the ATTRA Web site at www.attra.ncat.org. All ATTRA publications (and links to many other resources) are available to anyone for downloading from the Web site.

ESRI – Booth #6

With annual sales of more than \$469 million, ESRI has been the world leader in the geographic information system (GIS) software industry for more than 30 years. As the leader in GIS technology, ESRI offers innovative solutions that will help you create, visualize, analyze, and present information better and more clearly. Working with location information, ESRI's GIS software and solutions give you the power to solve problems you encounter every day. Organizations around the world, as well as local, state, and federal government agencies, are using ESRI GIS software to make smart and timely decisions. ESRI provides powerful GIS solutions to more than 300,000 clients in more than 220 countries. www.esri.com

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The Agriculture and Agri-Food Canada's PFRA Shelterbelt Centre – Booth #7

The Agriculture and Agri-Food Canada's PFRA Shelterbelt Centre, located at Indian Head, Saskatchewan, is a diversified research, administration and tree nursery facility based on 640 acres (256 ha) where it was established by the government of Canada in 1901. For more than a hundred years, The Centre has produced and distributed over 580 million seedlings to prairie clients. The Centre's objectives include protection of soil and water resources, improvement in air quality, enhanced wildlife habitats, as well as increased economic returns for farmers, and better quality of life for rural residents. The Centre's role is to apply an agroforestry approach to these sustainability issues and does so through producing hardy tree and shrub seedlings, distributing them to rural land owners, disseminating technical information, and conducting environmentally and economically significant research

The University of Missouri Center for Agroforestry (UMCA) – Booth #8

The University of Missouri Center for Agroforestry (UMCA), established in 1998, is an interdisciplinary research, teaching and technology transfer program. The Center is recognized as a leading institution for biophysical, economic and social research related to temperate agroforestry and its benefits to landowners and the environment. More than 60 agroforestry projects are conducted at the Horticulture and Agroforestry Research Center in New Franklin, Mo., the largest of four key UMCA research sites. Research foci include groundbreaking research on riparian forest buffers to reduce nonpoint source pollution; cultivation and improvement of Chinese chestnut, eastern black walnut and northern pecan as orchard crops; gourmet mushrooms and other specialty niche forest farming crops; shade and flood tolerance studies; alley cropping of forage and oil seed crop in nut trees; hardwood silvopasture research; landscape scale studies of agroforestry and wildlife biodiversity; socio-economic and marketing research to facilitate agroforestry adoption; and an active technology transfer program.

Educational Concerns for Hunger Organization – Booth #9

ECHO (Educational Concerns for Hunger Organization) is an NGO that specializes in giving technical backup to other NGO's that work with small-holder farmers in economically developing countries. Most services are at no charge. We operate on a 50 acre campus/farm in SW Florida in the USA. Our "user-friendly" climate-controlled seedbank specializes in underutilized tropical plants as well as varieties of common crops that have special resistance to stresses commonly found on such farms. These include tropical vegetables, forages, green-manure/cover crops, fruit trees, and agroforestry trees.

Stop by our booth to meet the director of the seedbank, Dr. Grace Ju, and ECHO's Executive Director, Dr. Martin Price. We're interested in meeting people who could be resource people for us as well as people that we might be able to assist from time to time.

Universite de Moncton – Booth #10

This Faculty, in a francophone city and within a forested area, offers Bachelor's degrees (coop option) and Master's in forestry sciences as well as a new applied program in Agroforestry. Its team of highly qualified researchers, its experimental forest and its geomatics laboratory make it an ideal place for studies and research.

EXHIBITORS (continued)

Conservation International – Booth #11

Conservation international is dedicated to the protection of the Earth's Biodiversity and the idea that humans and nature can live in harmony. As part of this approach we engage in agroforestry activities that contribute simultaneously to rural livelihoods and biodiversity conservation. The CI display will detail the relationship between agroforestry and conservation, as well as the types of agroforestry activities that CI engages in. Please stop by our display to learn more about the mutual benefits of agroforestry and biodiversity conservation.

SATELLITE EVENTS

SUNDAY, 27 JUNE 2004

Agroforestry Technology Transfer and Extension Working Group

Time: 12:00pm – 3:00pm

Location: Azalea/Begonia

Organized By: *Bill Hubbard*, University of Georgia, Athens, GA, USA

This meeting will serve:

- To bring together those interested in agroforestry technology transfer to share success stories, learn from each other, share programmatic tools and techniques and discuss evaluation protocols for successful technology transfer and Extension programs
- As an organizational meeting to create a regional multiagency working group on agroforestry technology transfer.

Agenda:

12:00pm	Welcome and Introductions - Joshua Idassi, Tennessee State University
12:15pm	The need for a regional technology transfer and Extension working group - Bill Hubbard, Southern Regional Extension Forester
12:30pm	Successful technology transfer activities (5-15 minutes each depending on who is in attendance and would like to present, please bring handouts for approximately 30-40 people)
2:00pm	Facilitated discussion on creating a working group (membership, leadership, logistics, costs, meeting needs, products, etc)
3:30pm	Adjourn

MONDAY, 28 JUNE 2004

Association for Temperate Agroforestry (AFTA)

Time: 5:30-7:30 pm

Location: Grand Ballroom, Salon VI

Organized By: *Miles Merwin*, AFTA, Portland, OR, USA

The 2004 Annual Meeting of the Association for Temperate Agroforestry (AFTA) is open to everyone. You are welcome to come learn about AFTA, a nonprofit organization that promotes the adoption of temperate agroforestry practices by landowners in North America. AFTA's first President, Dr. Mike Gold (University of Missouri), will trace the history of the organization over the last 15 years. After a brief business meeting, there will be a panel discussion to highlight current innovations in the science and practice of agroforestry in different regions of the US and Canada. Members of the panel are: Louise Buck, Cornell University; Scott Josiah, University of Nebraska; Mike Maki, Agroforestry Associates; Sarah Workman, University of Georgia; and Lisa Zabek, B.C. Ministry of Agriculture, Food and Fisheries. For more information, please visit www.aftaweb.org.

SATELLITE EVENTS (continued)

MONDAY, 28 JUNE 2004

Conservation International Book Release

Time: 5:30-7:30 pm

Location: Camellia/Dogwood

Organized By: *Sarah Bath*, Conservation International, Washington, DC, USA

Email: s.bath@conservation.org

Conservation International is hosting a Wine & Cheese reception to officially launch the book *Agroforestry and Biodiversity Conservation in Tropical Landscapes* recently published by Island Press, Washington, DC. This event is open to all congress participants

Agroforestry and Biodiversity Conservation in Tropical Landscapes brings together 46 scientists and practitioners from 13 countries with decades of field experience in tropical regions to explore how agroforestry practices can help promote biodiversity conservation in human-dominated landscapes, to synthesize the current state of knowledge in the field, and to identify areas where further research is needed.

Agroforestry and Biodiversity Conservation in Tropical Landscapes is the first comprehensive synthesis of the role of agroforestry systems in conserving biodiversity in tropical landscapes, and contains in-depth review chapters of important agroforestry systems, with examples from many different countries. It is a valuable source of information for scientists, researchers, professors, and students in the fields of conservation biology, resource management, tropical ecology, rural development, agroforestry, and agroecology.

The Editors and Authors will be available to sign copies of the book during the evening:

- GÖTZ SCHROTH is with the Center for International Forestry Research in Brazil.
- GUSTAVO A.B. DA FONSECA is with Conservation International, USA.
- CELIA HARVEY is professor at the Centro Agronomico de Investigacion y Ensenanza in Costa Rica.
- CLAUDE GASCON is with Conservation International, USA.
- HERALDO L. VASCONCELOS is professor at the Federal University of Uberlândia in Manaus, Brazil.
- ANNE-MARIE N. IZAC is at the Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD) in France

SATELLITE EVENTS (continued)

TUESDAY, 29 JUNE 2004

Ecoagriculture Partners: Increasing Productivity, Wild Biodiversity and Ecosystem Services in Agricultural Landscapes”

Time: 5:30-7:00 pm

Location: Grand Ballroom, Salon VI

Organized By: Sara J. Scherr, Ph.D., Director, Ecoagriculture Partners Forest Trends

Email: SScherr@forest-trends.org, SJScherr@aol.com

"Ecoagriculture" is an umbrella term for a diverse set of strategies for managing agricultural landscapes to improve productivity and rural livelihoods, while also conserving or restoring biodiversity and ecosystem services. Ecoagriculture Partners is an international partnership of farmers, conservationists, agriculturalists, public land managers, agribusiness and researchers to support, develop and mainstream ecoagriculture. The partnership was formed at the World Summit on Sustainable Development in 2002, and is co-sponsored by Forest Trends, the World Conservation Union (IUCN), the World Agroforestry Centre (ICRAF) and Future Harvest.

This event will introduce Ecoagriculture Partners and its activities, and seek input from the international agroforestry community about ongoing ecoagriculture initiatives, gaps and challenges for scaling up, and priorities to address at the upcoming International Ecoagriculture Conference and Practitioners' Fair, to be held in Nairobi, Kenya, September 27-October 1.

<http://www.ecoagriculturepartners.org/Meetings/Nairobi04.htm>

Speakers:

Introduction to Ecoagriculture Partners: Motivation and Objectives -- *Dennis Garrity, Director-General, World Agroforestry Centre, Kenya*

Overview of Activities: Ecoagriculture Profiles, Working Groups, State-of-the-Art Assessments and Strategic Planning, Field Partnerships -- *Sara J. Scherr, Director, Ecoagriculture Partners (Forest Trends), USA*

Forum of Ecoagriculture Partners – regional and program updates, issues and priorities for action

TUESDAY, 29 JUNE 2004

Discussion on Teaching Agroforestry

Time: 5:30-7:00 pm

Location: Azalea/ Begonia

Organized By: *Michael Jacobson, Penn State University, University Park, PA, USA*

Agroforestry is becoming more applicable and available as a college level course. However, agroforestry encompasses a wide range of topics, from tropical to temperate systems, covers agricultural and forest sciences, and includes social, economic, and ecological factors. The discussion will provide a forum where individuals who teach agroforestry can discuss their ideas on what should be emphasized in the class and effective methods for teaching these concepts.

SATELLITE EVENTS (continued)

TUESDAY, 29 JUNE 2004

Landcare-An Approach to Sustainable Land Use

Time: 5:30pm-7:30pm

Location: Grand Ballroom, Salon I

Organized By: *Hal Brockman*

US Forest Service, Washington, DC, USA

email: hbrockman@fs.fed.us

Landcare was initiated in Australia as an outgrowth of local concerns about solving environmental issues at the local level. That effort started about 15 years ago. Since then, 9 countries have adopted some form of Landcare. In the US, we are in the process of developing Landcare, based on the Australian model. Landcare is not an organization, but rather a way to organize to promote and develop a better land ethic.

To see more about what Landcare is doing in Australia, go to their web site, www.landcareaustralia.com.au. In Australia, the Landcare brand and ethic has 85% recognition by the general public. The “triple bottom line”, profitability, stewardship and community is a big part of the program. This has created interest by Corporations and the Federal Government to help provide funding for local projects.

Come hear what the Landcare leaders in the US are working on and how you can be involved. We will discuss the progress being made including corporate sponsorship. We will talk about specific Landcare like activities, the role of agroforestry, and the international aspects of Landcare.

WEDNESDAY FIELD TOUR DESCRIPTIONS

Agroforestry in an Urbanizing Landscape

Organized by: *Alan Long*, University of Florida/IFAS, Gainesville, FL, USA

Description: This tour will be guided through two examples (Silvopasture Site, Clermont FL and Ernon Camilia Nursery, Plymouth FL) in which agroforestry has been successfully applied by producers as part of their strategy to access niche markets, diversify production, and reduce costs, which is exceedingly critical as farmers struggle to survive amid development pressure from Orlando's rapidly expanding urban population. Tour stops will look at options to maintain rural landscapes and will include discussions on the role of non-timber forest products, silvopasture, and streamside management zones in the southeastern U.S.

Agenda: (This field trip will be split into two sub-groups and will travel in reverse directions)

1:00pm	Start to board bus
1:30pm	Depart Hilton hotel
2:15pm	Arrive at Silvopasture Site, Clermont FL
3:15pm	Depart and travel to second stop
4:15pm	Arrive at Erinon Camilia Nursery, Plymouth FL
5:15pm	Depart and travel to Hilton hotel
6:15pm	Arrive at Hilton hotel

Non-Timber Forest Products and Public Land Management

Organized by: *Sarah Workman*, University of Florida/IFAS, Gainesville, FL, USA

Description: The field trip will visit a forest farming (lucrative fern production) area northeast of Orlando and travel back through the Ocala National Forest to see how collection permits for 'crooked wood' and other special forest products (NTFPs) fit in timber and public land management plan.

Agenda:

1:00pm	Start to board bus
1:30pm	Depart Hilton hotel
2:30pm	Arrive at Forest farm, Deland FL
3:30pm	Depart and travel to second stop
4:00pm	Arrive at Ocala National Forest, Ocala FL
5:15pm	Depart and travel to Hilton hotel
6:15pm	Arrive at Hilton hotel

WEDNESDAY FIELD TOUR DESCRIPTIONS (continued)

Short Rotation Woody Crops (SRWC)

(Co-hosted by: The Common Purpose Institute)

Organized by: *Don Rockwood*, University of Florida/IFAS, Gainesville, FL, USA

Description: Fuelwood could be used advantageously for co-firing in the electric utilities that are concentrated in central Florida region and reclaimed phosphate mined lands in the region constitute a significant land base on which SRWCs may be cultivated as fuelwood. This field trip will visit a 50-hectare SRWC plantation approximately one hour southwest of Orlando. It will consist of a self-guided tour through the demonstration area and the commercial plantings area where Cottonwood (*Populus deltoides*), eucalypts (*Eucalyptus amplifolia* and *E. grandis*), and other species were established, beginning in 2000, on a clay settling area formerly dominated by cogongrass (*Imperata cylindrica*).

Agenda:

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|--------|--|
| 1:00pm | Start to board bus |
| 1:30pm | Depart Hilton hotel |
| 2:30pm | Arrive at Short Rotation Woody Crops Demonstration Area, Lakeland FL |
| 5:00pm | Depart and travel to Hilton hotel. |
| 6:15pm | Arrive at Hilton hotel |

ADDITIONAL INFORMATION

Check-in: The hotel's check-in time is 3:00 pm. Room assignments prior to that time are on availability basis.

Check-out: Checkout time is 11:00 am. There are several options available when checking out. You may use the video checkout on your television to checkout and then pick up your receipt at the Front Desk. Another option is express check-out.

Currency Exchange: Foreign currency may be exchanged at the hotel's front desk. You may also change foreign currency for US dollars in any bank. Identification could be requested. Most businesses accept traveler's checks and major credit cards. Banks are usually open Monday through Friday 9:00am – 4:00pm. *SunTrust Bank is located directly across from the hotel: 407-762-4796.*

Parking: The hotel has valet and self-parking. The current rate for valet parking is \$10.00 per day plus sales tax (24 hours) with in and out privileges. Complimentary self-parking in the main parking lot is available to guest.

Restaurants and Beverages Located in the Hilton- Hours of Operation

Mainstreet Market is open 24 hours (Convenience store and gourmet deli)

Covington Mill Restaurant: Breakfast 6:30am – 11:30am; Lunch 11:30am – 3:00pm

Finn's Restaurant: Dinner 5:30pm – 11:00pm

John T's Bar: 2:00pm – 2:00am

Rum Largo: (by the pool) Food and Beverage 11am – 4pm

Smoking: Smoking is prohibited in most public places and all restaurants in Florida. There is no smoking in the hotel unless you have requested accommodations that have been designated as such. All smoking areas are located outside the hotel.

Taxes: The state sales tax for the Orlando area is currently at 6.5%. This tax will be applied to all purchases with the exception of non-prepared foods. An 11% room tax (6.5% State tax & 5% occupancy tax) will be applied to all accommodations. All taxes are non-negotiable.

Telephone Charges in a Guest Room: Local and long distance calls from the guest rooms can be very expensive. Toll free numbers are also charged. Be certain to request the hotel operator to give you an estimate on a call before making a telephone call to someone outside of the hotel. Dial 9 + 0 for the operator. There is no charge to dial from a Hilton guest room to another Hilton guest room. To call "Room -to-Room" dial 7 + room number.

Tips: Tips are generally 15 to 20% of the bill before taxes in a restaurant, bars, and taxis. Bellhops in hotels and airports usually get \$2.00 per bag. Housekeeping usually receives \$2.00 per day.

Electrical Current: Current in the US is 110 volts AC at a 60-cycle frequency. If your appliances use a different voltage, you will need the appropriate adaptor. *Ask the hotel guest services where adaptors can be purchased.*

Airport Transportation

Mears Transportation Motor Shuttle is the designated ground carrier at Orlando International Airport. The shuttle may be picked up curbside as you exit baggage claim. Ask for the "Hilton Express" shuttle. One-way is \$16.00 for adults and \$12.00 for children (ages 4-11). Round-trip tickets are available for \$28.00 for adults and \$20.00 for children. Use the Discount coupon provided by the Congress for \$4.00 off round-trip prices. *Coupons are available at the Congress registration.*

Return shuttles to the airport may be picked up from the front entrance of the hotel. We recommend a pick up 3 hours prior to departure time. Reservations should be made with the Guest Services Desk/Concierge.

Taxi Cabs: The cost of a taxi from the airport, or from the Hilton in the Walt Disney World® Resort to the airport is estimated at \$34.00. The Front Services and Concierge Department will assist you in arranging pick-up. Taxi pick-up can also be found on the front drive.

Car Rental: *Avis Rental Car* is located in the lobby of the adjacent to the Mug's Bar. Hours of operation are daily from 6:30 am – 8:30 pm. Use The Congress Avis Worldwide Discount (AWD) number **J998648** to receive special rates.

Disney Information: Transportation and Information to the Disney Theme Parks is located in the guest rooms of the Hilton. The Disney Store, located in the hotel, also has information on Disney Tickets.

General Area Questions: Located near the Congress registration area are two representatives from the Orlando/Orange County Convention & Visitors Bureau, Inc. They are here to help you with any questions you may have about the Orlando Area.

Lost & Found: When an article is found, please first check the Congress registration area. If the lost articles cannot be found, check with the hotel Security Department. If found by a hotel staff, any lost article is turned into the Security Department and held for 30 to 90 days. If the item is of value, security holds the item up to 90 days. All other items are held for thirty (30) days. If the item is unclaimed after 30 to 90 days, it is returned to the finder. The Security Department is available for inquiries twenty-four (24) hours daily at extension 3337. Guests are responsible for all shipping charges to return any claimed articles.

Medical Facilities

The hotel does not have a doctor on premises. Guests are referred to the following facilities:

Florida Hospital Centra Care (two blocks away) 407-239-7777

Florida Hospital Centra Care II (one block away) 407-934-2273

Sand Lake Hospital (approximately 5 miles) 407-351-8550

If necessary, a doctor can be called to make a "House Call" to the hotel. This can be arranged through our Hotel Assistant Manager at the Client's request.

To contact hotel staff from a hotel house telephone for medical emergency situations ONLY, dial 3333.

To contact a hospital from a guest room for a medical emergency situation ONLY, dial 9 + 911.

Prescriptions: *Turner Drug Store* (two blocks away, with delivery for a charge) 407-828-8125

Pharmacy for over the counter supplies: *Walgreen* is open from 7am – 12am. Take a right from the Hilton, go to the 3rd stoplight and make left onto 535, go to the 2nd stop light and Walgreen will be on the left side.

Business Center

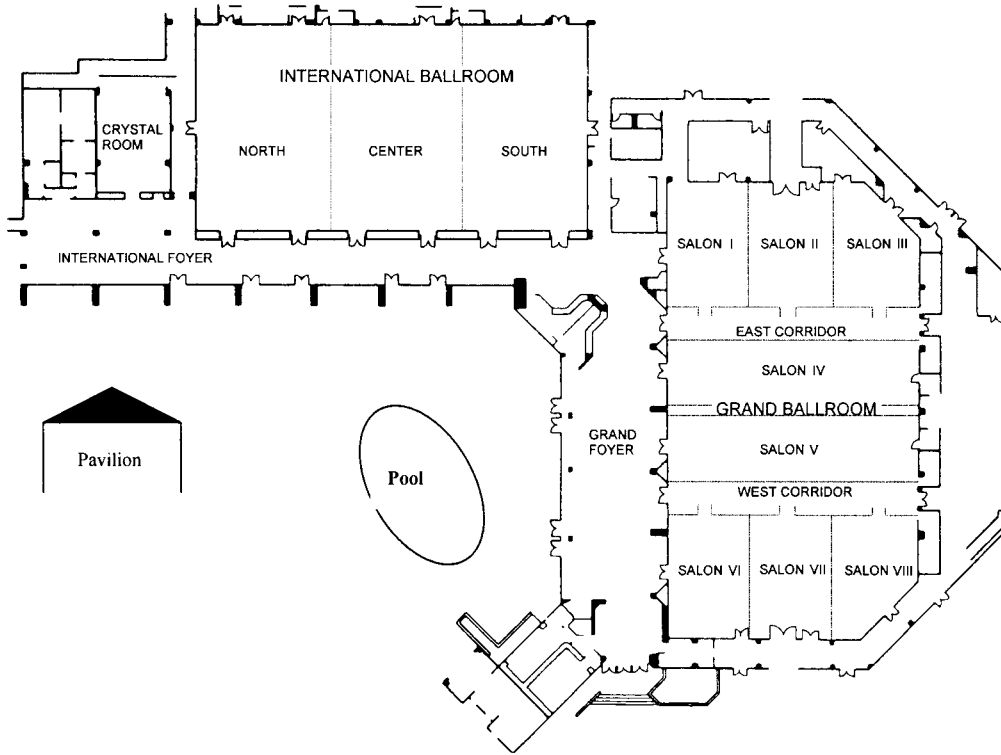
The Business Center is located on the ballroom level and provides the following services:

- Copy services/specialty paper
- Computer, typewriter and office equipment rentals
- On-site computers and workstations
- Secretarial services
- Facsimile services
- Shipping services/supplies
- Federal Express / UPS / Airborne
- Digital pagers and cellular phones

Pricing for selected Business Center services are at prevailing rates. Charges may be posted to a room folio, master account, or be paid by cash, check, Visa or MasterCard. If you need further information, call the Business Center at (407) 827-3880. Business Center hours are 7:00am–7:00pm Monday through Friday, with limited hours on Saturday and Sunday.

HOTEL FLOOR PLAN

Lobby Level



Mezzanine Level

