

A G E N D A

1993 LTER All Scientists Meeting

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September 18-22, 1993
ESTES PARK CENTER/YMCA of the Rockies
Estes Park, Colorado

SATURDAY, September 18 *LTER 2000—PAST & FUTURE*

AFTERNOON: Arrivals, Registrants Check-in (*Chapel*)

EVENING:

5 - 6 p.m. Graduate Student Mixer (*Chapel*)

6 - 7 DINNER (*Dining Hall*)

PRESENTATIONS (*Auditorium*)

7:30 - 8:30

James T. Callahan
Environmental Biology
National Science Foundation

HOW THE SCIENTIFIC COMMUNITY & THE NATIONAL SCIENCE
FOUNDATION (NSF) CREATED THE LTER NETWORK: 1965-1993

Jerry F. Franklin
LTER Coordinating
Committee Chair

LTER 2000—THE NEXT DECADE

8:30 - 9:30

MIXER (*Chapel*)

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A G E N D A



SUNDAY, September 19

INTERSITE & SYNTHETIC RESEARCH

7 - 8 a.m. **BREAKFAST** (*Dining hall*)

MORNING SESSION: (*Auditorium, 8:00 a.m. - 12:00 p.m.*)

Co-Chairs: John Hobbie (Arctic Tundra LTER) & Janet Fischer (North Temperate Lakes LTER)

PRESENTATIONS

8 - 8:15 **Jerry Franklin** (LTER Coordinating Committee Chair)
WELCOME & INTRODUCTIONS

8:20 - 9 **Bruce Hayden** (Virginia Coast Reserve LTER)
**ECOSYSTEM CONTROLS ON CLIMATE & ATMOSPHERIC LINKAGES
BETWEEN ECOSYSTEMS**

9 - 9:40 **Susan Stafford** (H.J. Andrews LTER)
**INTEGRATION OF SCIENTIFIC INFORMATION MANAGEMENT &
LONG-TERM ECOLOGICAL RESEARCH**

9:40 - 10:20 **Mark Harmon** (H. J. Andrews LTER) & the LIDET Team
LONG-TERM DECOMPOSITION EXPERIMENTS (LIDET)

10:20 - 10:40 **BREAK** (*East & West Auditorium foyers*)

10:40-11:20 **James Brown** (Sevilleta LTER)
**INTERSITE COMPARISONS FOCUSING ON ANIMAL SPECIES, GUILDS &
FUNCTIONAL GROUPS**

11:20 - 12 p.m. **SITE BITE PRESENTATIONS—ANTARCTIC & ARCTIC SITES**
McMurdo Dry Valleys: Robert Wharton
Palmer Station: Robin Ross
Arctic Tundra: John Hobbie
Bonanza Creek: Roger Ruess

12 - 1 **LUNCH** (*Dining hall*)
Graduate Student Lunch Discussions

A G E N D A



SUNDAY, September 19

INTERSITE & SYNTHETIC RESEARCH

AFTERNOON & EVENING

- 1 - 4 pm. POSTER SESSION (*Chapel*)
- NETWORKING RESOURCES DEMONSTRATIONS (including LTER Long-Term
Data Catalog, Bibliographic Database, Gophers, Interactive "Collage" Software)
- 4 - 6 FREE TIME
- CLIMATE COMMITTEE MEETING (*Auditorium break-out room, to be posted*)
- INFORMAL PRESS MIXER
Invited presenters, designated site representatives and press representatives.
(*Location to be announced*)
- 6 - 7 DINNER (*Dining hall*)
- 7 - 9 Workshop (*Auditorium*)
DEVELOPMENT OF COMMONALITY IN LONG-TERM DATASETS



MONDAY, September 20

INTERSITE & SYNTHETIC RESEARCH

- 7 - 8 a.m. BREAKFAST (*Dining hall*)

MORNING SESSION: (*Auditorium, 8 - 12 a.m.*)

Co-Chairs: David Foster (Harvard Forest LTER) & Win Everham (Luquillo LTER)

PRESENTATIONS

- 8 - 8:40 William Parton (Central Plains LTER)
SIMULATING CLIMATIC CHANGE IMPACTS FOR THE TERRESTRIAL
LTER SITES; THE CENTURY MODEL RESULTS
- 8:40 - 9:20 Edward Rastetter (Arctic Tundra LTER)
RECONSTRUCTING HISTORICAL CHANGES IN CARBON STORAGE IN
TERRESTRIAL ECOSYSTEMS: USING A GENERAL ECOSYSTEM MODEL TO
COMPARE LTER SITES

AGENDA



MONDAY, September 20

INTERSITE & SYNTHETIC RESEARCH

MORNING SESSION, continued

- 9:20 - 10 **Jack Webster** (Coweeta Hydrologic Laboratory LTER)
ORGANIC MATTER PROCESSES IN STREAMS IN THE UNITED STATES
- 10 - 10:30 **BREAK** (*East & West Auditorium foyers*)
- 10:30 - 11:10 **John Moore** (Central Plains LTER)
BIODIVERSITY WITHIN SOIL FOOD WEBS
- 11:10 -12 p.m. **SITE BITE PRESENTATIONS—TEMPERATE FOREST SITES**
Hubbard Brook Experimental Forest: Tim Fahey
Harvard Forest: Richard Boone
Coweeta Hydrologic Laboratory: Judy Meyer
H.J. Andrews Experimental Forest: Art McKee
Luquillo Experimental Forest: Robert Waide
- 12 - 1 **LUNCH** (*Dining hall*)

AFTERNOON & EVENING

- 1 - 4 p.m. **Workshops:** (*Auditorium break-out rooms; locations to be announced & posted daily*)
ROOTS: TURNOVER, LONGEVITY AND MINIRHIZOTRON TECHNIQUES
ORGANIC MATTER IN STREAMS
EL NIÑO
FOREST CANOPY RESEARCH
CENTURY—GEM MODELING COMPARISONS
AD-HOC Workshops to be announced & posted
- 4 - 6 **FREE TIME**
- 5 - 6 **Social** (*Chapel*)
- 6 - 7 **DINNER** (*Dining hall*)
- 7 - 9 **Committee Meetings & Workshops**
(*Auditorium break-out rooms; locations to be announced*)
DATA MANAGERS COMMITTEE
GRADUATE STUDENT COMMITTEE
AD-HOC Workshops to be announced & posted

AGENDA



TUESDAY, September 21

ILTER—NEW DIRECTIONS

7 - 8 a.m. **BREAKFAST** (*Dining hall*)

MORNING SESSION: (*Auditorium, 8:00 a.m. - 12:00 p.m.*)

PRESENTATIONS

- 8 - 8:20 **Jerry Franklin** (LTER Coordinating Committee Chair)
INTRODUCTION TO *LTER 2000*
- 8:20 - 9 **Richard Berk** (Department of Sociology, University of California at Los Angeles)
URBAN ECOSYSTEMS & THE HUMANS IN THEM.
- 9 - 9:40 **Robert Costanza** (Chesapeake Bay Land-Margin Ecosystem Research Program site)
ENVIRONMENTAL ECONOMICS
- 9:40 - 10:20 **Penny Firth** (National Science Foundation)
COORDINATION OF FEDERAL AND EARTH AND ENVIRONMENTAL
SCIENCES RESEARCH: LESSONS AND OUTLOOK
- 10:20 - 10:40 **BREAK** (*East & West Auditorium foyers*)
- 10:40 - 11:20 **William Rees** (Community & Regional Planning, University of British Columbia)
ECOLOGICAL FOOTPRINTS & HUMAN CARRYING CAPACITY:
MEASURING THE SUSTAINABILITY GAP
- 11:20 - 12:10 p.m. **SITE BITE PRESENTATIONS—AGRICULTURAL, COASTAL, LAKES, ALPINE SITES**
Kellogg Biological Station: Kay Gross
North Inlet: James Morris
Virginia Coast Reserve: Bruce Hayden
North Temperate Lakes: John Magnuson
Niwot Ridge: Tim Seastedt
- 12:10 - 1 **LUNCH** (Dining hall)

AFTERNOON & EVENING

- 1 - 4 p.m. **Workshops** (*Auditorium break-out rooms; locations to be announced and posted*)
SOIL BIODIVERSITY
ALKALINITY BUDGETS
COMPARATIVE ANALYSIS OF DISTURBANCE
ILTER & NASA/EOS COLLABORATIVE RESEARCH
CROSS-SITE STUDIES OF FOOD WEBS IN THE LTER NETWORK
LITTER DECOMPOSITION
AD-HOC Workshops to be announced & posted

AGENDA



TUESDAY, September 21

LTER—NEW DIRECTIONS

AFTERNOON & EVENING, continued

- 4 - 6 p.m. FREE TIME
- 5 - 6 Social (*Chapel*)
- 6 - 7 PRIME-RIB DINNER (*Vegetarian selection available. Dining hall*)
- 8:30 LTER Coordinating Committee Meeting (*Auditorium, CLOSED SESSION*)



WEDNESDAY, September 22

LTER—EXPANDING PERSPECTIVES

- 7 - 8 a.m. *BREAKFAST (Dining hall)*

MORNING SESSION: (*Auditorium, 8:00 a.m. - 12 p.m.*)

PRESENTATIONS

Co-chairs: Diana Freckman (McMurdo Dry Valleys LTER) & Steve Wondzell (H.J. Andrews LTER)

- 8 - 8:40 Hank H. Shugart, Jr. (Virginia Coast Reserve)
ECOSYSTEM MODELS: LTER—INTERNATIONAL PARTNERSHIPS
- 8:40 - 9:20 Elizabeth Holland (Niwoot Ridge LTER)
BUILDING A TRACE GAS NETWORK FOR THE UNITED STATES
- 9:20 - 10 John Magnuson (North Temperate Lakes LTER)
COMPARATIVE LANDSCAPE ECOLOGY OF DISPARATE LTER
ECOSYSTEMS: SPATIAL HETEROGENEITY IN GREENNESS FROM FULL
LANDSAT SCENES
- 10 - 10:30 BREAK (*East & West Auditorium foyers*)
- 10:30 - 11:10 David Kingsbury (Human Genome Project, Johns Hopkins University)
A MODEL OF SHARED INFORMATION SERVICES FOR A DISTRIBUTED
RESEARCH COMMUNITY

AGENDA



WEDNESDAY, September 22

LTERR—EXPANDING PERSPECTIVES

MORNING SESSION, continued

- 11:10 - 12 p.m. *SITE BITE* PRESENTATIONS—DESERT & GRASSLAND SITES
 Jornada: William Schlesinger
 Sevilleta: Bruce Milne
 Central Plains: Ingrid Burke
 Konza Prairie: Alan Knapp
 Cedar Creek: David Tilman
- 12 - 12:15 Mary Clutter (Acting Deputy Director & Assistant Director, BIO Directorate,
 National Science Foundation)
 THE BIOLOGICAL SCIENCES DIRECTORATE, THE ROLE OF LTER,
 INTERNATIONAL ASPECTS, and THE CURRENT BUDGET ENVIRONMENT
- 12 - 1 LUNCH (Dining hall)

AFTERNOON & EVENING

- 1 - 4 pm. *Workshops (Auditorium break-out rooms; locations to be announced & posted)*
 REGIONAL RESEARCH
 TRACE GAS FLUXES NETWORK
 CARBON DYNAMICS IN AQUATIC ECOSYSTEMS: CONTINENTAL-SCALE
 PATTERNS AND LANDSCAPE-SCALE PROCESSES
 USING WIDE-AREA INFORMATION SERVICES
 MAPPING SOIL PROPERTIES AT LARGE SPATIAL SCALES
 AD-HOC Workshops to be announced & posted
- 4 - 5 FREE TIME
- 5 - 6 Social (*Chapel*)
- 6 - 7 *DINNER (Dining hall)*
- 7:30 - 9 *Workshop Reports & Summaries (Auditorium)*
 Timothy Seastedt (Niwo Ridge LTER), Moderator



Thursday, September 23

DEPARTURES, All Scientists Meeting participants

INTERNATIONAL SUMMIT begins (*Location to be announced*)

SCHEDULE OF EVENTS

Mornings:

8:00 - 10:00	Three presentations, 40 minutes each
10:00 - 10:30	Break/coffee/tea
10:30 - 11:10	Talk(4)
11:10 - 12:00	Five "Site Bites"
12:00 - 1:00	Lunch

Afternoons:

1:00 - 4:00	Workshops, Posters, Meetings*, Demonstrations
4:00 - 6:00	free time
6:00 - 6:30	social

Evenings:

6:30 - 7:30	dinner
7:30 - 9:30	various activities (workshops/banquet/social, etc.)

Mornings. During the four-day meeting, each morning will consist of a general session in which the first three hours are devoted to invited presentations (four, each 30 minutes in length, followed by 10 minutes for questions).

The final hour of each morning consists of "Site Bites" - short 10-minute presentations from each of the 18 LTER sites. Five sites will make presentations each morning, focusing on new, exciting and synthetic research. These presentations are not intended to be a general overview of the site and its entire program.

Afternoons. Afternoons consist of workshops, meetings and poster sessions for three hours (1-4 pm), followed by free, unscheduled time until dinner (4-6 pm). On Day 1*, the entire afternoon is devoted to the Poster Session, in order to give all participants sufficient time to view the posters. The Poster Session is being coordinated by the LTER Graduate Student Committee. Posters will be display in a main meeting room area (to be announced).

* **INFORMAL PRESS CONFERENCE:** An informal press conference is also scheduled for Day 1, September 19, 4-6 pm (location to be announced at the meeting). This will be an opportunity for LTER investigators to talk about current research and its results with science writers and representatives of the press. To keep this to a manageable size, we are inviting lead site PIs, key speakers, and "Site Bite" presenters only.

Afternoons, continued

On Days 2, 3 and 4, the afternoons are devoted to various workshops, meetings, demonstrations, and ad-hoc "birds of a feather" sessions. Workshop Coordinator is Mr. Ken Bible of the LTER Network Office. Many workshops are planned in advance, while other workshops and meetings will be arranged spontaneously. The "birds of a feather" sessions are informal meetings of like-minded persons.

Evenings. Sunday evening, Drs. Jerry Franklin (elected chair of the LTER Coordinating Committee) and Tom Callahan (NSF) will give an overview of the LTER Program, focusing on the development of the Program (Callahan) and plans for the future (Franklin).

Monday evening: Workshops.

Tuesday evening: Banquet and Dinner Speaker (to be selected).

Wednesday evening: Workshop reports and summaries, followed by an overall summary of the All Scientists Meeting.

PRESENTATIONS

1993 LTER All Scientists Meeting

September 18 - 24, 1993
YMCA of the Rockies, Estes Park, Colorado

Invited Presentations

7pm Saturday, Sept. 18 **"LTER 2000" —PAST AND FUTURE**

Jerry Franklin: "LTER 2000—The Next Decade"
Tom Callahan: "LTER Network—1965-1993, an NSF
Perspective"

Sunday, Sept. 19

INTERSITE & SYNTHETIC RESEARCH

Co-Chairs: John Hobbie ARC and Janet Fischer NTL

Jerry Franklin: Welcome and Introductions

Bruce Hayden: "Ecosystem Controls on Climate and
Atmospheric Linkages Between Ecosystems"

Susan Stafford: "Integration of Scientific Information
Management and Long Term Ecological Research"

LIDET Team & Mark Harmon: "Long Term
Decomposition Experiments (LIDET)"

James Brown: "Intersite Comparisons focusing on Animal
Species, Guilds and Functional Groups"

Monday, Sept. 20

INTERSITE & SYNTHETIC RESEARCH

Co-Chairs: David Foster HFR and Win Everham LUQ

William Parton: "Simulating Climatic Change Impacts for the
Terrestrial LTER Sites: The CENTURY Model Results"

Ed Rastetter: "Reconstructing Historical Changes in Carbon
Storage in Terrestrial Ecosystems: Using a General
Ecosystem Model to Compare LTER Sites"

Jack Webster: "Organic Matter Processes in Streams in the
United States"

John Moore: (belowground biodiversity/foodwebs)

Tuesday, Sept. 21

ILTER—NEW DIRECTIONS

Co-Chairs: Jerry Franklin NET and Anne Hartley JRN

Jerry Franklin: Introduction to "ILTER 2000"

Richard Berk: "Urban Ecosystems and the Humans in Them"

Bob Costanza: (tentative: Environmental Economics)

Penny Firth: "Coordination of Federal and Earth and Environmental Sciences Research: Lessons and Outlook"

William Rees: (ecological footprints)

Wednesday, Sept. 22

ILTER—EXPANDING PERSPECTIVES

Co-Chairs: Diana Freckman MCM, Steve Wondzell AND

Hank Shugart: "Ecosystem Models: LTER—International Partnerships"

Beth Holland: "Building a Trace Gas Network for the United States"

John Magnuson: "Comparative Landscape Ecology of Disparate LTER Ecosystems: Spatial Heterogeneity in Greenness from Full LANDSAT Scenes"

David Kingsbury: "A Model of Shared Information Services for a Distributed Research Community"

1993 LTER ALL SCIENTISTS MEETING DRAFT WORKSHOP SCHEDULE

This draft schedule is based on comments and requests from conveners as well as basic logistics. Please direct questions and comments to Ken Bible, LTER Network Office, phone: (206) 685-0954; e-mail: kBible@LTERnet.edu

Monday 9/20

Roots: Turnover, Longevity & MiniRhizotron Tech. (Bledsoe, Hendrick)
Organic Matter in Streams (D'Angelo, Webster, Meyer)
CENTURY -- GEM Modeling Comparisons (Ojima, Parton, D Schimel)
El Nino (Hayden)
Forest Canopy Research (Nadkarni)
Standardizations (?) (not written in stone)

Tuesday 9/21

Comparative Analysis of Disturbance (Hayden, Swanson, Franklin)
Alkalinity Budgets (Driscoll, et al.)
LTER & EOS (NASA) Research (Vande Castle, Running)
Soil Biodiversity (Bledsoe, Moore, Lattin, Moldenke)
Litter Decomposition (LIDET, Harmon, et al.)
Food Webs (Hall, Waide, Frost)

Wednesday 9/22

The Risser Report (Gosz)
Landscape CO2 Dynamics in Streams, Lakes and Wetlands (Kratz, Kling, Cole)
Trace Gas Fluxes Network (Holland, J Schimel, Mosier, Ojima, et al.)
Regional Research (Burke, Hayden)
Network Information Made Easy: Using Wide-Area Information Services
(Nottrott, Porter, Chinn)
Mapping Soil Properties at Large Spatial Scales (Sollins, Coleman)