14th ANNUAL SYMPOSIUM
THURSDAY 5 APRIL 1990 evening
7:30 P.M. OPENING, Love Library Auditorium
13th & R Streets, University of Nebraska-Lincoln campus
WELCOME
John Wunder, Director, Center for Great Plains Studies
University of Nebraska-Lincoln
Martin Massengale, Interim President, University of Nebraska;
Chancellor, University of Nebraska-Lincoln
INTRODUCTION
1. GREAT PLAINS CLIMATE CHANGE IN PERSPECTIVE
   Kenneth Dewey, Chair of symposium committee, Geography, University of Nebraska-Lincoln
KEYNOTE ADDRESS
- Global Climate Change and the Great Plains
  Thomas R. Karl, Climate Perspectives Branch, National
  Climatic Data Center, NOAA, Asheville, North Carolina
CHANCELLOR'S RECEPTION following
Center for Great Plains Studies Art Collection
205 Love Library
FRIDAY 6 APRIL 1990 morning
8:00 A.M. REGISTRATION, Lincoln Hilton Hotel
8:30 A.M. PLENARY SESSION
2. CULTURAL RESPONSE TO CLIMATE CHANGE
   Chair: Jeanne Kay, Geography, University of Nebraska-Lincoln
   - Social Adaptation to Rapid Climate Change
     William Reesman, Natural Hazards Research & Applications
     Information Center, University of Colorado
   - "April is the Cruelest Month": The Meanings of Droughts in
     Great Plains Fiction
     Reginald Dyck, English, University of Washington
   - Lowering Real Interest Rates Could Slow Greenhouse Warming
     Craig S. Marsden, Economics, Kearney State College
10:00 A.M. BREAK
10:30 A.M. 3.A. CLIMATE CHANGE DATA AND ANALYSIS
   Chair: Blaine Blad, Agricultural Meteorology, University of
   Nebraska-Lincoln
   - A Search for Sub-Regional Scenarios of Climate Change Within
     the Great Plains
     Michael Ghilani, Environmental and Societal Impacts Group, NCAR, Boulder, Colorado
   - Observed Variations in Seasonal Temperatures at Selected High
     Plains Locations During the Past Century
     Thomas B. McKee and Nolan J. Doesken, Atmospheric
     Science, Colorado State University
3.B. VARIATIONS IN WIND EROSION & DEPOSITION
   Chair: William Wayne, Geology, University of Nebraska-
   Lincoln
   - The Geologic Record of Wind Erosion, Eolian Deposition, and
     Aridity on the Southern High Plains
     Vance Hulliday, Geography, University of Wisconsin-Madison
   - The Changing Dust Levels in the Atmosphere of the North
     American Central Plains
     Steve LaDochy, Geography & Urban Analysis, California
     State University, Los Angeles
12:00 NOON LUNCHEON
4. CLIMATE AND ART
   Presiding: Norman A. Geake, Director emeritus
   Sheldon Art Gallery
   - The Landscape Painter as Natural Scientist
     Jon Nelson, Curator
   Center for Great Plains Studies Art Collection
FRIDAY 6 APRIL 1990 afternoon
1:30 P.M. 5.A. VEGETATIONAL CHANGE AND CLIMATE
   Chair: Douglas Bamforth, Anthropology, University of
   Nebraska-Lincoln
   - Climate and Vegetation in the Mid-Continent: Natural Patterns
     and Human Alterations
     John A. Harrington, Jr., Geography/Geology, Indiana State
     University
   - Monitoring of Biodiversity in the Great Plains with Satellite-
     Derived Vegetation Indices
     Kevin P. Gallo, Science & Applications Branch, EROS Data
     Center, NOAA, Sioux Falls, South Dakota
   - Jesslyn F. Brown, Geography, University of Nebraska-Lincoln
5.B. CLIMATE CHANGE INFLUENCES ON NATIONAL PARKS
   Chair: Paul Kay, Geography, University of Nebraska-Lincoln
   - Impacts of Climate Change on Small Prairie Parks in the Great
     Plains
     Gary Willson, Midwest Region, National Park Service,
     Omaha, Nebraska
   - The Implications of Climate Change at a National Park: Prince
     Albert National Park, A Case Study
     Paul Galbraith and Merri Syred, Prince Albert National
     Park, Saskatchewan
2:30 P.M. BREAK
3:00 P.M. PLENARY SESSION
6. CLIMATE CHANGE MODELS, DO THEY WORK?
   Chair: James McCorrie, Director, Canadian Plains Research
   Center, University of Regina
   - A Decision-Theoretic Model of the Agricultural Adjustment to
     Climatic Change on the Great Plains
     Kent M. McGregor, Geography, University of North Texas
Modeling Future Climates on the American Great Plains: What Do We Really Know?
Michael A. Palecki, Geography, State University of New York at Buffalo
Climate Change and Agricultural Crop Patterns for Selected U.S. Crops
Francisco Flores Mendoza, Kenneth G. Hubbard and Donald A. Willihite, Agricultural Meteorology, University of Nebraska-Lincoln
Dust Bowl Reunited? Climate Change and Great Plains Agriculture
Cynthia Rosenzweig, Geography, Columbia University, NASA/Goddard Institute for Space Studies
FRIDAY 6 APRIL 1990 evening
8:00 P.M.
7. POETRY, ART, AND CLIMATE CHANGE
Center for Great Plains Studies Art Collection
205 Love Library
Presiding: Frances W. Kaye, English, University of Nebraska-Lincoln
A POETRY READING:
William Kloetjen, English, Nebraska Wesleyan University, Nebraska-Foot
Robert Kroetch, English, University of Manitoba
OPENING: OF THE SKY, an exhibition
Skysteps by Great Plains artists
RECEPTION following: Sponsored by Consulat General of Canada, Minneapolis, Minnesota
SATURDAY 7 APRIL 1990 morning, Lincoln Hilton Hotel
8:30 A.M.
8.A. INTERNATIONAL COMPARISONS OF PLAINS CLIMATE
Chair: Mark Anderson, Geography, University of Nebraska-Lincoln
Intra-Regional Transfer from Canada as One Alternative in Meeting Increased Water Needs in the Lower Western Interior Plains
Arleigh H. Laycock, Geography, University of Alberta
"My Anasazi" and "Exotic Pleasures": Weather and Environment in American and Australian Literature
Dana Abu-Jaber, English, Iowa State University
Impacts of Climate Change on North China "Great Plains"
Nuo Wen-yan, Research Center for Eco-environmental Sciences, Academia Sinica, Beijing
8.B. AGRICULTURAL ADAPTATION TO CLIMATE CHANGE
Chair: Gary Moulton, History, University of Nebraska-Lincoln
Potential Agricultural Adaptation to Climate Change on the Canadian Prairies
Leith M. Arthur, Agricultural Economics, University of Manitoba
Preliminary Evaluation of the Effect of Climate Change on Rangeland Livestock Production
Impact of Technical Change on the Vulnerability of Great Plains Agriculture to Weather
Glen A. Helmers and Maurice B. Baker, Agricultural Economics, University of Nebraska-Lincoln
11:00 A.M. BREAK
10:30 A.M.
9.A. PRECIPITATION ADAPTATIONS
Chair: Clinton Rowe, Geography, University of Nebraska-Lincoln
Direct Experience and Perception of Climate Change Among Great Plains Farmers
David M. Digs, Natural Hazard Research and Applications Information Center, University of Colorado
Biodiversity Variation and Climate Change
Michael J. Keables, Geography, University of Denver
9.B. MONITORING CLIMATE CHANGE
Chair: Shachl Venema, Agricultural Meteorology, University of Nebraska-Lincoln
Climate Fluctuations in the Great Plains During the 15th and 20th Centuries
Richard R. Heir, Jr., National Climatic Data Center, NOSA, Asheville, North Carolina
Low-Frequency Atmospheric Variations and Great Plains Climate: Intermontal to Interdecadal Associations
Daniel J. Leathers, Geography, University of Nebraska-Lincoln
12:00 NOON LUNCHEON
10. POLITICS AND CLIMATE CHANGE
Chair: John Peters, Political Science, Deue, College of NOA and Economics, University of Nebraska-Lincoln
Climate and Climate Change Legislation in Congress
The Honorable Douglas Bereuter, Representative, First Congresional District, Nebraska
SATURDAY 7 APRIL 1990 afternoon
1:30 P.M.
11.A. PRECIPITATION AND CLIMATE VARIABILITY ON THE GREAT PLAINS
Chair: Peter Longo, Political Science, Kearney State College
Precipitation Fluctuations in the Great Plains During the Late 19th Century
Gary J. Mock, Geography, University of Nebraska-Lincoln
11.B. GEOLOGIC ASPECTS OF CLIMATE CHANGE ON THE GREAT PLAINS
Chair: John J. Shroyer, Jr., Geography/Geology, University of Nebraska at Omaha
External and Regional Events Affecting the Geologic History of the Great Plains During the Period from 37 to 1.6 Million Years Ago
Robert F. Dillendal, Conservation and Survey Division, University of Nebraska-Lincoln
Holocene Climates of the Great Plains: Evidence from the Sand Hills
Janet R. Swinzebar, Conservation and Survey Division, University of Nebraska-Lincoln
3:00 P.M. BREAK
3:30 P.M. PLENARY SESSION
12. RESEARCH VACCINES AND CLIMATE CHANGE ON THE GREAT PLAINS
Chair: Merlin Lawson, Geography, Associate Dean Graduate Studies, Assistant Vice-Chancellor for Research, University of Nebraska-Lincoln
A Panel Discussion:
Karen L. Barnes, Director, Department of Natural Resources and Conservation, State of Montana
Gary K. Hulet, Special Assistant for Health and Environment, Office of the Governor, State of Kansas
Michael J. Hess, Director, Department of Water Resources, State of Nebraska
SATURDAY 7 APRIL 1990 evening, Kinbal Recital Hall
11th & R Street, University of Nebraska-Lincoln campus
7:30 P.M.
13. LAND OF SKY AND EARTH
Presiding: Frederick C. Luckey, History, University of Nebraska-Lincoln
A New Yorker Views the Great Plains
Ian Frazier, author of Great Plains
Symposium sponsored in part by grants from the U.S. Environmental Protection Agency and Canada Council.
1991 SYMPOSIUM
"Low, The Bill of Rights, and the Great Plains." The bicentennial of the Bill of Rights and the decade to which the Great Plains has provided a setting for the definition and expansion of law and the Bill of Rights will be the theme of the 15th annual symposium, to be held 6-9 March 1991. Topical ideas, but are not limited to, legal philosophy, legal history, constitutional law and civil liberties, legal anthropology, law and politics literature, and comparative law. Inquiries about the 1991 conference should be directed to Professor John R. Wunder, Center for Great Plains Studies, 1213 Oldfather Hall, Lincoln, NE 68508-0314.
The topic for the 1992 symposium is "Exploration and the Great Plains."