

Final Report for Period: 05/1999 - 04/2000

Submitted on: 08/01/2000

Principal Investigator: Storm, Carlyle B.

Award ID: 9900216

Organization: Gordon Res Conferences

1999 Gordon Research Conference on Atmospheric Chemistry; Newport, Rhode Island; June 13-17, 1999

Project Participants

Senior Personnel

Name: Storm, Carlyle

Worked for more than 160 Hours: Yes

Contribution to Project:

Post-doc

Graduate Student

Undergraduate Student

Organizational Partners

Other Collaborators or Contacts

Activities and Findings

Project Activities and Findings: (See PDF version submitted by PI at the end of the report)

Project Training and Development:

Research Training:

Outreach Activities:

Journal Publications

Books or Other One-time Publications

Web/Internet Sites

URL(s):

www.grc.uri.edu

Description:

Gordon Research Conferences maintains a Web site which lists the conference title, date of conference, location of conference, and a tentative program for the conference. It is an informational tool for scientists who wish to see our up-coming schedule and determine which conferences they wish to apply to. Gordon Research Conferences does not permit publication of meeting proceedings.

Other Specific Products

Contributions

Contributions within Discipline:

The Gordon Research Conferences provide a private forum for the free and open discussion of ideas at the frontiers of science and technology. Participants have the opportunity to discuss unpublished work and to explore new issues and ideas in the formative stage. The long-term agenda for research in an area is set based on these discussions and new interdisciplinary research areas often develop from the interactions and discussions at the meetings.

Contributions to Other Disciplines:

Contributions to Human Resource Development:

Contributions to Science and Technology Infrastructure:

Beyond Science and Engineering:

Categories for which nothing is reported:

Organizational Partners

Activities and Findings: Any Project Training and Development

Activities and Findings: Any Research Training

Activities and Findings: Any Outreach Activities

Any Journal

Any Book

Any Product

Contributions: To Any Other Disciplines

Contributions: To Any Contributions to Human Resource Development

Contributions: To Any Science or Technology Infrastructure

Contributions: Beyond Science or Engineering

The Gordon Research Conference (GRC) on Atmospheric Chemistry was held at Salve Regina University in Newport, Rhode Island, June 13-18, 1999. The conference was well attended with 151 participants. The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both US and foreign scientists, senior researchers, young investigators, and students.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field.

The following is the final program and registration list:

Gordon Research Conference on
Atmospheric Chemistry

Salve Regina University
Newport, Rhode Island, USA
June 13-18, 1999

Co-Chairs:

William H. Brune
Joyce E. Penner

Visit the [Conference Web Page](#) for more information

Sunday Evening: EVOLUTION OF THE ATMOSPHERE

Discussion leader: Yuk Yung

James Kasting "Climate and atmospheric photochemistry on the early Earth"

Paul Mayewski "Source emission strengths and atmospheric circulation patterns of the past revealed through major ion glaciochemistry"

Monday Morning: CHEMISTRY'S ROLE IN CLIMATE

Discussion leader: Ivar Isaksen

Catherine Gautier "Clear sky solar radiation absorption: anomaly or not?"

Claire Granier "Climatic impact of methane and ozone changes"

Monday Evening: NUCLEATION PROCESSES

Discussion leader: Sonia Kreidenweis

Markku Kulmala "Nucleation and condensation processes in the atmosphere"

Thomas Peter "Nucleation of natural and anthropogenic aerosols at and above the tropopause"

Tuesday Morning: CHEMISTRY AND AEROSOL FORMATION

Discussion leader: Frank Arnold

Kimberly Prather "Real-time analysis of tropospheric aerosol chemistry"

John Seinfeld "Formation of organic aerosols from atmospheric oxidation of hydrocarbons"

Jonathan Abbatt "Laboratory studies of phase transitions in model tropospheric aerosols"

Tuesday Evening: HETEROGENEOUS CHEMISTRY

Discussion leader: Charles Kolb

Barbara Finlayson-Pitts "Heterogeneous reactions at solid and liquid interfaces: implications for tropospheric chemistry of halogens and oxides of nitrogen"

Rolf Sander "Modeling aerosol chemistry in the marine boundary layer: ozone, halogen, and nitrogen species."

Wednesday Morning: STRATOSPHERIC CHEMISTRY AND TRANSPORT

Discussion leader: Mark Schoeberl

Philip Rasch "The contribution from tropospheric anthropogenic and biogenic sources to sulfate aerosol in the lower stratosphere"

Michael Volk "Stratospheric transport and mixing in the light of in situ tracer observations"

Ross Salawitch "Improvements in our understanding of atmospheric photochemistry by comparison of theory and observation"

Wednesday Evening: THE GLOBAL ATMOSPHERE -- OBSERVATIONS FROM SATELLITES

Discussion leader: Michael Prather

Anne Douglass "The upper atmosphere research satellite: from coffee table art to quantitative science"

Kelly Chance "Optical remote sensing of ozone and trace gases, with emphasis on GOME and SCIAMACHY measurements"

Thursday Morning: REGIONAL AIR QUALITY

Discussion leader: Kenneth Demerjian

Mary Anne Carroll "Photochemical and transport processes --> oxidants and aerosols <--> forest/atmosphere interactions"

Dave Nelson "Measuring motor vehicle exhaust emissions with the vehicle in motion"

Thomas Sharkey "The biological basis of the large role for isoprene in regional air quality"

Thursday Evening: CONVECTION AND GLOBAL ATMOSPHERIC OXIDATION

Discussion leader: Hanwant Singh

Lyatt Jaegle "Recent advances in understanding the impact of convection on upper tropospheric HO_x and ozone production"

Anne Thompson "Insights into the ozone-convection connection using models with observations from aircraft missions"

ATMOSPHERIC CHEMISTRY

Salve Regina University, Newport, RI

(13-Jun-99) - (18-Jun-99)

This was the final registration list for the 1999 Conference on
ATMOSPHERIC CHEMISTRY.

JONATHAN ABBATT UNIVERSITY OF CHICAGO Speaker
HEATHER C ALLEN UNIVERSITY OF OREGON Poster Presenter
PAULO ARTAXO INSTITUTO DE FISICA DA USP Poster Presenter
JOHN R BARKER UNIVERSITY OF MICHIGAN Poster Presenter
MATTHEW R BASSFORD UNIVERSITY OF TORONTO Poster Presenter
STEVEN B BERTMAN WESTERN MICHIGAN UNIVERSITY Speaker
ALLAN K BERTRAM MASSACHUSETTS INSTITUTE OF TECHNOLOGY Poster Presenter
MERETE BILDE CARNEGIE MELLON UNIVERSITY Poster Presenter
FRANCIS S BINKOWSKI NOAA/ARL/ASMD Attendee
KRISTIE A BOERING UNIVERSITY OF CALIFORNIA, BERKELEY Poster Presenter
FRANK M BOWMAN VANDERBILT UNIVERSITY Poster Presenter
WILLIAM H BRUNE PENNSYLVANIA STATE UNIVERSITY Chair
PETER BUSECK ARIZONA STATE UNIVERSITY Attendee
PETER F CAFFREY NAVAL RESEARCH LABORATORY Poster Presenter
TERESA L CAMPOS NATIONAL CENTER FOR ATMOSPHERIC RESEAR Attendee
CHRIS A CANTRELL NATIONAL CENTER FOR ATMOSPHERIC RESEARCH Poster Presenter
KELLY CHANCE HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS Speaker
ROBERT B CHATFIELD NASA AMES RESEARCH CENTER Poster Presenter
GAO CHEN GEORGIA INSTITUTE OF TECHNOLOGY Poster Presenter
LIANG T CHU WADSWORTH CENTER & SUNY - ALBANY Poster Presenter
KEVIN L CIVEROLO NEW YORK STATE DEC Attendee
RONALD C COHEN UNIVERSITY OF CALIFORNIA, BERKELEY Poster Presenter
JAMES H CRAWFORD NASA LANGLEY RESEARCH CENTER Poster Presenter
JEFF M CRONKHITE NATIONAL INSTITUTE OF STANDARDS ANDTECH Poster Presenter
DAVID R CROSLEY SRI INTERNATIONAL Attendee
PAUL DAVIDOVITS BOSTON COLLEGE Attendee
LORI A DEL NEGRO NOAA CMDL Poster Presenter
KENNETH L DEMERJIAN UNIVERSITY AT ALBANY, STATE UNIV. OF N Discussion Leader
PAUL J DEMOTT COLORADO STATE UNIVERSITY Poster Presenter
THEODORE DIBBLE SUNY ENVIRONMENTAL SCIENCE FOREST Poster Presenter
ROBERT S DISSELKAMP PACIFIC NORTHWEST NATIONAL LABORATORY Poster Presenter
JAMES DONALDSON UNIVERSITY OF TORONTO Poster Presenter
ANNE DOUGLASS NASA/GODDARD SPACE FLIGHT CENTER Speaker
MANVENDRA K DUBEY LOS ALAMOS NATIONAL LABORATORY Poster Presenter
BRYAN N DUNCAN HARVARD UNIVERSITY Poster Presenter
LOTHAR ERDINGER UNIVERSITY OF HEIDELBERG Poster Presenter
IAN C FALOONA PENN STATE Attendee
BARBARA J FINLAYSON-PITTS UNIVERSITY OF CALIFORNIA, IRVINE Speaker
GREGORY J FROST AERONOMY LABORATORY Poster Presenter
ANDREW C FUSCO HARVARD UNIVERSITY Poster Presenter
BRUCE C GARRETT PACIFIC NORTHWEST NATIONAL LAB Poster Presenter
CATHERINE GAUTIER-DOWNES UNIVERSITY OF CALIFORNIA, SANTA BARBARA Speaker
DAVID M GOLDEN SRI INTERNATIONAL Attendee
CLAIRE GRANIER NOAA Speaker

[ROBERT J GRIFFIN](#) CALIFORNIA INSTITUTE OF TECHNOLOGY Poster Presenter
[PATRICK HAMILL](#) SAN JOSE UNIVERSITY Attendee
[D. ALAN HANSEN](#) ELECTRIC POWER RESEARCH INSTITUTE Poster Presenter
[SIMONE M HECK](#) NATIONAL RESEARCH COUNCIL OF CANADA Attendee
[BROOKE L HEMMING](#) CALIFORNIA INSTITUTE OF TECHNOLOGY Poster Presenter
[JOHN C HEMMINGER](#) UNIVERSITY OF CALIFORNIA, IRVINE Poster Presenter
[SCOTT C HERNDON](#) UNIVERSITY OF COLORADO Poster Presenter

I want to personally thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you