The Gordon Research Conference (GRC) on Radiation & Climate was held at Colby Sawyer College, New London, NH from 07/05/2009 thru 7/10/2009. The Conference was well-attended with 164 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, U.S. 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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. Attached is a copy of the formal schedule and speaker program and the poster program. 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.

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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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.

Sincerely,

Qiang Fu
University Of Washington
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<th>Name</th>
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<td>Alexander Marshak</td>
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<td>Muge Komurcu</td>
<td>PENNSYLVANIA STATE UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Hsiao-Ting Lin</td>
<td>NATIONAL CENTRAL UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Zheng Liu</td>
<td>UNIVERSITY OF WASHINGTON</td>
<td>Attendee</td>
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<tr>
<td>Yinghui Lu</td>
<td>PENNSYLVANIA STATE UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Bruce L. McArthur</td>
<td>SCIENCE AND TECHNOLOGY BRANCH, ENVIRONMENT CANADA</td>
<td>Attendee</td>
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<tr>
<td>Joseph J. Michalsky</td>
<td>NOAA/ESRL</td>
<td>Attendee</td>
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<tr>
<td>Kajsa M. Parding</td>
<td>STOCKHOLM UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Seong-Chan Park</td>
<td>SEOUL NATIONAL UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Jonathan L. Petters</td>
<td>PENN STATE UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Robert Pincus</td>
<td>UNIVERSITY OF COLORADO</td>
<td>Attendee</td>
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<tr>
<td>Jeremy Richardson</td>
<td>PEW CENTER ON GLOBAL CLIMATE CHANGE</td>
<td>Attendee</td>
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<tr>
<td>Benjamin D. Strycker</td>
<td>TEXAS A&amp;M UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Pao-Chun Tang</td>
<td>NATIONAL CENTRAL UNIVERSITY</td>
<td>Attendee</td>
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<tr>
<td>Mulugeta NEGASH. Tesfaye</td>
<td>NATIONAL METEOROLOGICAL AGENCY</td>
<td>Attendee</td>
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<tr>
<td>Jian Wang</td>
<td>BROOKHAVEN NATIONAL LABORATORY</td>
<td>Attendee</td>
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The 2009 Gordon Research Conference on Radiation and Climate will present cutting-edge research on the outstanding issues in global climate change with focus on the radiative forcing and sensitivity of the climate system and associated physical processes. The Conference will feature a wide range of topics, including grand challenges in radiation and climate, radiative forcing, climate feedbacks, cloud processes in climate system, hydrological cycle in changing climate, absorbing aerosols and Asian monsoon, recent climate changes, and geo-engineering. The invited speakers will present the recent most important advances and future challenges in these areas. The Conference will bring together a collection of leading investigators who are at the forefront of their field, and will provide opportunities for scientists especially junior scientists and graduate students to present their work in poster format and exchange ideas with leaders in the field. The collegial atmosphere of this Conference, with programmed discussion sessions as well as opportunities for informal gatherings in the afternoons and evenings, provides an avenue for scientists from different disciplines to brainstorm and promotes cross-disciplinary collaborations in the various research areas represented.

For the application/abstracts submission to the conference, use the link “Online Application” on the upper right corner. The financial support is available from the conference budget, mainly for postdocs and graduate students to cover the conference fee including the accommodation and meals. Please apply early.
"Can we decrease uncertainties in estimates of the direct and indirect forcing by anthropogenic aerosols?"

11:10 am - 11:30 am Discussion

11:30 am - 12:10 pm **S.G. Warren** (University of Washington)
"Particulate impurities in snow and their effect on surface albedo"

12:10 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session A

6:00 pm Dinner

7:30 pm - 9:30 pm **Radiative Forcing in Climate Change II**
Discussion Leader: **N.G. Loeb** (NASA Langley Research Center)

7:30 pm - 8:10 pm **P.M. Forster** (University of Leeds)
"Radiative forcing. Defining and using it now and in the future"

8:10 pm - 8:30 pm Discussion

8:30 pm - 9:10 pm **K.K. Tung** (University of Washington)
"Solar Forcing and Response: What Do They Tell Us About Our Climate Sensitivity?"

9:10 pm - 9:30 pm Discussion

9:45 pm - 11:00 pm Evening Social (including informal interactions with Poster presenters)

**TUESDAY**

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Analysis of Climate Feedbacks**
Discussion Leader: **T.P. Charlock** (NASA Langley Research Center)

9:00 am - 9:40 am **A.E. Dessler** (University of Texas A&M)
"Recent advances and current issues in the water vapor feedback"

9:40 am - 10:00 am Discussion

10:00 am Coffee Break

10:30 am - 11:10 am **A. Hall** (University of California at Los Angeles)
"Constraining Climate Feedbacks with Observations"

11:10 am - 11:30 am Discussion

11:30 am - 12:10 pm **C.S. Bretherton** (University of Washington)
"Cloud-resolving models and boundary-layer cloud feedbacks"

12:10 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session A (continued)

6:00 pm Dinner

7:30 pm - 9:30 pm **Hydrological Cycle in Changing Climate**
Discussion Leader: **Christian Jakob** (Monash University)

7:30 pm - 8:10 pm **Graeme Stephens** (Colorado State University)
"The links between radiation, clouds and precipitation and relevance to climate"

8:10 pm - 8:30 pm Discussion

8:30 pm - 9:10 pm **K.E. Trenberth** (National Center for Atmospheric Research)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:10 pm - 9:30 pm</td>
<td>Discussion</td>
</tr>
<tr>
<td>9:45 pm - 11:00 pm</td>
<td>Evening Social (including informal interactions with Poster presenters)</td>
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</table>

**WEDNESDAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:00 am - 12:30 pm</td>
<td><strong>Cloud Processes in the Climate System</strong></td>
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<tr>
<td>Discussion Leader: <strong>S.A. Klein</strong> (Lawrence Livermore National Laboratory)</td>
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<tr>
<td>9:00 am - 9:40 am</td>
<td><strong>B. Stevens</strong> (Max Planck Institute for Meteorology)</td>
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<tr>
<td>&quot;Shallow convection, precipitation and climate&quot;</td>
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<tr>
<td>9:40 am - 10:00 am</td>
<td>Discussion</td>
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<tr>
<td>10:00 am</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 am - 11:10 am</td>
<td><strong>E.J. Jensen</strong> (NASA Ames Research Center)</td>
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<tr>
<td>&quot;Cirrus in the Tropical Tropopause Layer and its Role in the Climate System&quot;</td>
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<tr>
<td>11:10 am - 11:30 am</td>
<td>Discussion</td>
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<tr>
<td>11:30 am - 12:10 pm</td>
<td><strong>Yi Ming</strong> (NOAA/Geophysical Fluid Dynamics Laboratory)</td>
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<tr>
<td>&quot;Toward Understanding Aerosol-Cloud-Climate Interactions&quot;</td>
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<tr>
<td>12:10 pm - 12:30 pm</td>
<td>Discussion</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Lunch</td>
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<tr>
<td>1:30 pm - 4:00 pm</td>
<td>Free Time</td>
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<tr>
<td>4:00 pm - 6:00 pm</td>
<td>Poster Session B</td>
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<tr>
<td>6:00 pm</td>
<td>Dinner</td>
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<tr>
<td>7:00 pm - 7:30 pm</td>
<td>Business Meeting</td>
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<tr>
<td>(Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site &amp; Scheduling preferences; Election of the next Vice Chair)</td>
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<tr>
<td>7:30 pm - 9:30 pm</td>
<td><strong>Absorbing Aerosols and Asian Monsoon</strong></td>
</tr>
<tr>
<td>Discussion Leader: <strong>Kuo-Nan Liou</strong> (University of California at Los Angeles)</td>
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<tr>
<td>7:30 pm - 8:10 pm</td>
<td><strong>W.K.M. Lau</strong> (NASA / Goddard Space Flight Center)</td>
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<tr>
<td>&quot;Do aerosols weaken or strengthen the Asian Monsoon?&quot;</td>
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<td>8:10 pm - 8:30 pm</td>
<td>Discussion</td>
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<tr>
<td>8:30 pm - 9:10 pm</td>
<td><strong>S.E. Schwartz</strong> (Brookhaven National Laboratory)</td>
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<tr>
<td>&quot;Why hasn't Earth warmed as much as expected?&quot;</td>
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<tr>
<td>9:10 pm - 9:30 pm</td>
<td>Discussion</td>
</tr>
<tr>
<td>9:45 pm - 11:00 pm</td>
<td>Evening Social (including informal interactions with Poster presenters)</td>
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**THURSDAY**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>7:30 am - 8:30 am</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:00 am - 12:30 pm</td>
<td><strong>Recent Climate Change</strong></td>
</tr>
<tr>
<td>Discussion Leader: <strong>J.M. Wallace</strong> (University of Washington)</td>
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<tr>
<td>9:00 am - 9:40 am</td>
<td><strong>C.M. Bitz</strong> (University of Washington)</td>
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<tr>
<td>&quot;The survival of Arctic summer sea ice in the 21st century&quot;</td>
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<tr>
<td>9:40 am - 10:00 am</td>
<td>Discussion</td>
</tr>
<tr>
<td>10:00 am</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30 am - 11:10 am</td>
<td><strong>S.C. Sherwood</strong> (University of New South Wales)</td>
</tr>
<tr>
<td>&quot;Climate change in the troposphere: do we understand it?&quot;</td>
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</tr>
<tr>
<td>11:10 am - 11:30 am</td>
<td>Discussion</td>
</tr>
</tbody>
</table>
11:30 am - 12:10 pm  **R. Hock** (University of Alaska)
"Glaciers in a warming climate - will there be any in 100 years?"

12:10 pm - 12:30 pm Discussion
12:30 pm Lunch
1:30 pm - 4:00 pm Free Time
4:00 pm - 6:00 pm Poster Session B (continued)
6:00 pm Dinner
7:30 pm - 9:30 pm **Geo-Engineering**

Discussion Leader: **B. Toon** (University of Colorado)

7:30 pm - 8:10 pm **A. Robock** (Rutgers University)
"Geoengineering with stratospheric aerosols: Climate model simulations, injection options, and concerns"

8:10 pm - 8:30 pm Discussion
8:30 pm - 9:10 pm **P.J. Rasch** (Pacific Northwest National Laboratory)
"Geoengineering by seeding boundary layer clouds: Possibilities, Practicalities, and climate implications from model simulations"

9:10 pm - 9:30 pm Discussion
9:45 pm - 11:00 pm Evening Social (including informal interactions with Poster presenters)

**FRIDAY**

7:30 am - 8:30 am Breakfast
9:00 am Departure