

| LPMR-8 Program | | | |
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| www.gi.alaska.edu/lpmr8 | | | |
| Monday August 20 | | | |
| <i>Ice-Breaker Wedgewood Resort</i> | | | |
| 7 pm – 9pm | Ice-Breaker at Wedgewood Hotel (907) 452-1442 http://www.fountainheadhotels.com/wedgewood/wedgewood.htm | | |
| Tuesday August 21 | | | |
| 7:30 am | Buses arrive at Wedgewood Resort Hotel | If you miss bus call Joanna Cruzan at (907) 590-1785 | |
| 7:45 am | Buses leave Wedgewood Hotel for Geophysical Institute | | |
| 8:00 am | Buses arrive at Geophysical Institute | | |
| 8:00-8:30 | <i>On-Site Registration</i> | | |
| 8:30-9:00 | Welcome | Sharpton, Smith, Collins | |
| <i>Session 1</i> | | | |
| | Title | First Author | Paper |
| 9:00 – 9:30 | On the optics of light-scattering particles at the mesopause from Lyman- α to the infra-red | Witt | 1.1 |
| 9:40-10:00 | Measurements of PMCs, temperature, and water vapor from the Solar Occultation For Ice Experiment (SOFIE) | Hervig | 1.2 |
| 10:00-10:20 | PMC Detection and Mapping Using Aura OMI Measurements | DeLand | 1.3 |
| 10:20-10:40 | <i>Coffee Break</i> | | |
| 11:00-11:20 | A Review of Polar Mesospheric Summer Echoes (PMSE) with First Results from AMISR | Kelley | 1.4 |
| 11:20-11:40 | First SHIMMER PMC Observations | Englert | 1.5 |
| 11:40-12:00 | First observations with MARA - Polar Mesosphere Summer Echoes at Wasa, Antarctica (73°S) and comparison with Kiruna, Sweden (68° N) | Kirkwood | 1.6 |
| 12:00– 1:00 | <i>Lunch</i> | | |

| <i>Session 2</i> | | | |
|---------------------------------------|--|-------------------------------|-------|
| | Title | First Author | Paper |
| 1:00-1:20 | Inter-hemispheric Asymmetry in Polar Mesosphere Summer Echoes and Temperature at 69° Latitude | Morris | 2.1 |
| 1:20 - 1:40 | Observations of Polar Mesosphere Summer Echoes with calibrated VHF radars in the Northern and Southern hemisphere | Latteck | 2.2 |
| 1:40 - 2:00 | PMC properties observed by Odin/OSIRIS since November, 2001 | Petelina | 2.3 |
| 2:00-2:20 | A Decade of Observations of Polar Mesospheric Clouds by the POAM Instruments | Shettle | 2.4 |
| 2:20-2:40 | A five-year climatology of NLC particle sizes and occurrence derived from ENVISAT/SCIAMACHY limb measurements | Robert | 2.5 |
| 2:40-3:00 | First Results from the Cloud Imaging and Particle Size (CIPS) Experiment on the Aeronomy of Ice in the Mesosphere (AIM) Spacecraft | Rusch | 2.6 |
| 3:00-3:20 | <i>Coffee Break</i> | | |
| 3:20-3:40 | First comparison of AIM/CIPS and SBUV PMC results | Benze | 2.7 |
| 3:40-4:00 | PMC Observations from the International Space Station and the International Polar Year | Petit | 2.8 |
| 4:00 | First bus arrives at Geophysical Institute | | |
| 4:10 | Second bus arrives at Geophysical Institute | | |
| 4:10 | First bus leaves Geophysical Institute for Wedgewood Hotel | | |
| 4:20 | Second bus leaves Geophysical Institute for Wedgewood Hotel | | |
| 4:25 | First bus arrives at Wedgewood Hotel | | |
| 4:35 | Second bus arrives at Wedgewood Hotel | | |
| <i>Chatanika Valley and PFRR Tour</i> | | | |
| 5:00 | Buses leave for Poker Flat Research Range from Wedgewood Hotel | | |
| 6:00-8:00 | PFRR Tour | Greg Walker (907) 455-2102 | |
| 8:00-9:30 | Dinner at Chatanika Lodge | | |
| 9:30 pm | Buses leave for Wedgewood Resort from Chatanika Lodge | | |
| 10:30 pm | Buses arrive at Wedgewood Hotel | | |

| Wednesday August 22 | | | |
|----------------------------|---|--|-------|
| 8:00 am | Buses arrive at Wedgewood Resort Hotel | If you miss bus call Joanna Cruzan at (907) 590-1785 | |
| 8:10 am | Buses leave Wedgewood Hotel for Geophysical Institute | | |
| 8:25 am | Buses arrive at Geophysical Institute | | |
| <i>Session 3</i> | | | |
| | Title | First Author | Paper |
| 8:30-9:00 | Simulation of polar mesospheric clouds within a 3-dimensional chemistry | Marsh | 3.1 |
| 9:00 – 9:30 | Modeling of summer mesopause dynamics and PMC formation with LIMA | Berger | 3.2 |
| 9:30 – 9:50 | Numerical simulations of the three-dimensional distribution of polar mesospheric clouds | Bardeen | 3.3 |
| 9:50 – 10:10 | Conditions for water ice formation in the mesosphere and lower thermosphere | Feofilov | 3.4 |
| 10:10-10:30 | <i>Coffee Break</i> | | |
| 10:30-10:50 | Long-Term Variations in PMC Frequency as a Function of Latitude | Shettle | 3.5 |
| 10:50-11:10 | NLC variability during one solar cycle over North Norway | Fiedler | 3.6 |
| 11:10-11:30 | Common-volume characteristics of PMC and PMSE observed at Davis, Antarctica | Klekociuk | 3.7 |
| 11:30 – 11:50 | Seasonal climatology of mesopause-region temperatures over ALOMAR, Norway (69°N, 16°E) | Williams | 3.8 |
| 11:30-11:50 | Interhemispheric differences of mesospheric ice layers | Lübken | 3.9 |
| 12:00-1:20 | <i>Lunch</i> | | |

| <i>Session 4</i> | | | |
|--|---|---------|-----|
| 1:20-1:50 | Business meeting | Lübken | |
| 2:00-5:00 | Poster session in IARC, Akasofu 501 | | |
| 3:00-3:30 | <i>Coffee Break – Served in Poster Session</i> | | |
| 4:45 | Bus arrives at Geophysical Institute | | |
| 5:00 | Bus leaves Geophysical Institute for Wedgewood Hotel | | |
| 5:15 | Bus arrives at Wedgewood Hotel | | |
| <i>Conference Reception at Museum of the North</i> | | | |
| 6:15 | Bus leaves Wedgewood Resort for Museum | | |
| 6:30 | Bus arrives at Museum | | |
| 6:30 – 7:15 | Keynote: An overview of the Aeronomy of Ice in the Mesosphere Mission and Preliminary Results | Russell | M.1 |
| 7:15 – 9:15 | Reception | | |
| 9:00 pm | Bus arrives at Museum | | |
| 9:15 pm | Bus leaves Museum for Wedgewood Hotel | | |
| 9:30 pm | Bus arrives at Wedgewood Hotel | | |

| <i>Poster Presentations</i> | | |
|---|-----------------|-------|
| Title | First Author | Paper |
| Three-dimensional reconstruction of Mesospheric Airglow | Anderson | 4.1 |
| Comparison of satellite and ground-based data on polar mesospheric clouds | Barker-Tvedtnes | 4.2 |
| Gravity Wave Observations from CIPS Experiment on the AIM Spacecraft | Chandran | 4.3 |
| Recent Observations of Noctilucent Clouds over Fairbanks, Alaska | Cobb | 4.4 |
| Lidar observations of Noctilucent Clouds in the western Arctic | Collins | 4.5 |
| Extending the PMC Record: Nimbus-4 BUV Data in 1970-1972 | DeLand | 4.6 |
| Common Volume Measurements of Polar Mesospheric Clouds from AIM: Part 2 | Hervig | 4.7 |
| Six years of NLC analysis from the Odin satellite | Karlsson | 4.8 |
| The Cloud Imaging and Particle Size (CIPS) Experiment on the Aeronomy of Ice in the Mesosphere (AIM) Spacecraft | McClintock | 4.9 |
| Parameterization of polar mesospheric cloud particle radius for use in global climate models | Merkel | 4.10 |
| Ground-based imaging of NLC dynamics over Alaska, 2005 | Nielsen | 4.11 |
| Sondrestrom Lidar Study of Mesospheric Temperatures and Clouds | Pan | 4.12 |
| SCIAMACHY NLC limb spectra consistent with mono-modal particle size distribution | von Savigny | 4.13 |
| Near-real-time maps of Noctilucent cloud occurrence from SCIAMACHY/Envisat | von Savigny | 4.14 |
| Common Volume Measurements of Polar Mesospheric Clouds from AIM: Characterization of particle size distribution from CIPS imaging | Thomas | 4.15 |
| Observational Study of the Arctic Lower and Middle Atmosphere using Rayleigh Lidar, Satellite, Meteorological Measurements and Analyses | Thurairajah | 4.16 |
| Kelvin-Helmholtz dust modes in the Polar Summer Mesosphere | Wiechen | 4.17 |
| Correlation of Stratospheric Gravity Waves and Polar Mesospheric Clouds in Antarctica | Yamashita | 4.18 |

| Thursday August 23 | | | |
|---------------------------|--|--|-------|
| 8:00 am | Bus arrives at Wedgewood Resort Hotel | If you miss bus call Joanna Cruzan at (907) 590-1785 | |
| 8:10 am | Bus leaves Wedgewood Hotel for Geophysical Institute | | |
| 8:25 am | Bus arrives at Geophysical Institute | | |
| <i>Session 5</i> | | | |
| | Title | First Author | Paper |
| 8:30-8:50 | The Diurnal Variation of OH and PMCs Observed by SHIMMER | Stevens | 5.1 |
| 8:50 – 9:10 | PMC particle sizes retrieved from Odin/OSIRIS limb spectral measurements | Petelina | 5.2 |
| 9:10 – 9:30 | PMC Phase Functions from AIM / CIPS | Bailey | 5.3 |
| 9:30 – 9:50 | The Solar Occultation For Ice Experiment (SOFIE) | Hervig | 5.4 |
| 9:50-10:10 | AIM SOFIE Preliminary results on the PMC environment | Gordley | 5.5 |
| 10:10-10:30 | Evidence for interhemispheric stratosphere-mesosphere coupling derived from noctilucent cloud properties | Karlsson | 5.6 |
| 10:50-11:10 | <i>Coffee Break</i> | | |
| 11:10-11:30 | Planetary wave activity in PMC as observed from the CIPS instrument. | Merkel | 5.7 |
| 11:30 – 11:50 | Long-term variations of planetary wave signatures in noctilucent clouds | von Savigny | 5.8 |
| 11:50-12:10 | Tidal transport of NLCs observed at Poker Flat Research Range | Sakanoi | 5.9 |
| 12:10-1:15 | <i>Lunch</i> | | |

| <i>Session 6</i> | | | |
|---------------------------------|---|--------------|-------|
| | Title | First Author | Paper |
| 1:15-1:35 | Ground-Based Noctilucent Cloud Measurements in Coordination with AIM | Taylor | 6.1 |
| 1:35-1:55 | The Cosmic Dust Experiment onboard the AIM Mission | Horanyi | 6.2 |
| 1:55-2:15 | The MASS Rocket Instrument for Charged Aerosol Particles in the Mesosphere | Robertson | 6.3 |
| 2:15-2:35 | Seasonal variations of mesospheric Fe layers at Rothera, Antarctica | Chu | 6.4 |
| 2:35-2:55 | Simultaneous and co-located measurements of radar reflectivity, turbulence, winds, and electron density by VHF and MF radars during polar mesosphere winter echoes (PMWE) | Singer | 6.5 |
| 2:55-3:15 | <i>Coffee Break</i> | | |
| <i>Session 7</i> | | | |
| 3:15 – 4:45 | Plenary Community Discussion | Lübken | |
| 4:45 | Bus arrives at Geophysical Institute | | |
| 5:00 | Bus leaves Geophysical Institute for Wedgewood Hotel | | |
| 5:15 | Bus arrives at Wedgewood Hotel | | |
| <i>Pioneer Park Salmon Bake</i> | | | |
| 6:20 | Resort Bus departs from Bear Lodge to Pioneer Park (Alaska Land) | | |
| 6:30-9:00 | Dinner at Alaska Salmon Bake in Pioneer Park | | |
| 8:30 pm | Resort Bus from Salmon Bake to Bear lodge | | |
| 9:00 pm | Resort Bus from Salmon Bake to Bear lodge | | |
| 9:30 pm | Resort Bus from Salmon Bake to Bear lodge | | |