

**First MAGIC Science Workshop**  
**May 5-7, 2014**  
**Brookhaven National Laboratory**

**Final Agenda**

**Monday, May 5, Morning (Berkner Room B)**

**MAGIC Science Questions**

08:15-09:15 *Registration*

09:15-09:30 Welcome and Introduction

Ernie Lewis, MAGIC Principal Investigator

Peter Daum, Former Chair, Environmental & Climate Sciences Department, BNL

Robert Tribble, Deputy Director for Science and Technology, BNL

09:30-10:30 Keynote Presentation

Chris Bretherton (U. Washington): "The Science of the Stratocumulus-to-Cumulus Transition"

10:30-10:45 *Break*

10:45-11:30 Ernie Lewis: "MAGIC Workshop and Beyond"

11:30-11:45 discussion

11:45-1:00 *Lunch (Berkner Cafeteria)*

**Monday, May 5, Afternoon (Berkner Room B)**

**MAGIC Observations and Data - Chair: Dr. Allison McKomiskey, CIRES/NOAA ESRL**

Introduction, context, availability, and issues and concerns relating to MAGIC data sets:

What measurements are there? Why are they important? How do they relate to the science?

1:00-3:00 Presentations & Discussions

Richard Wagener (BNL): ECMWF data for MAGIC

Maria Cadeddu (Argonne National Laboratory): MWR data from MAGIC

Michael Reynolds (RMR Co.): met and radiation data from MAGIC

Mary Jane Bartholomew (BNL): Parsivel data from MAGIC

3:00-3:15 *Break*

3:15-5:15 Presentations & Discussions

Tami Toto (BNL): ship location and attitude data during MAGIC

Karen Johnson (BNL): radar data during MAGIC

David Troyan (BNL): ship motion data during MAGIC

Gunnar Senum (BNL): aerosol data during MAGIC

5:15 *Adjourn*

7:00 Banquet @ Jason Vineyards, 1785 Main Road, Jamesport (included, courtesy of Brookhaven Science Associates)

**Tuesday, May 6, Morning (Berkner Room B)**

**MAGIC Science – Chair: Dr. Andy Vogelmann, BNL**

Science questions that have been, can be, or will be addressed with MAGIC data:

What am I doing? What can I offer/share? What do I need?

08:45-10:15 Presentations & Discussions

Xiaoli Zhou (McGill Univ.): "Preliminary Analysis of Sc-Cu Transitions during MAGIC"

David Painemal (NASA): "Satellite Observations during MAGIC"

Michael Reynolds (RMR Co.): fluxes during MAGIC

10:15-10:30 *Break*

10:30-11:30 Presentations & Discussions

Alexander Marshak (NASA): "MAGIC Hyperspectral Observations for Studying Cloud Properties"

Courtney Laughlin (Penn. State): dual radar retrievals of cloud properties

11:30-11:45 Action items and charges

11:45-1:00 *Lunch (Berkner Cafeteria)*

**Tuesday, May 6, Afternoon (Berkner Room B)**

**MAGIC Science (cont.) – Chair: Dr. Michael Jensen, BNL**

1:00-3:00 Presentations & Discussions

Peter Kalmus (JPL): "Closing the Boundary Layer Energy and Water Budgets with a Little MAGIC"

Rebecca Craig (U. Mich.): "Single-Particle Microscopy Analysis of Aerosol Particles for the MAGIC Campaign"

Eimear Dunne (AEROCOM): AEROCOM modeling

Ernie Lewis (BNL): "Aerosol Properties during MAGIC"

3:00-3:30 *Break*

3:30-4:30 Presentations & Discussions

Alexander Smirnov (NASA): "Marine Aerosol Network (MAN) and Aerosol Optical Depth Measurements during MAGIC"

Ed Eloranta (U. Wisc.): drizzle measurements with the HSRL and KaZR during MAGIC

4:30-5:00 Action items and charges

5:00 *Adjourn*

7:00 Dinner @ Bistro 72 in Hotel Indigo, Riverhead

**Wednesday, May 7, Morning (Building 490, Large Conference Room)**

**Future Directions and Wrap Up – Chairs: Andy Vogelmann, Mike Jensen, & Ernie Lewis**

08:30-8:45 Recap of discussions

8:45-10:00 Near-term analyses, prospective publications

10:00-10:15 *Break*

10:15-11:45 Future plans: field campaigns, model intercomparisons, etc.

11:45-12:00 Summary discussion, action items and charges

12:00 *Adjourn*