UCAR Community Programs

Members Meeting
October 14, 2014

Emily CoBabe-Ammann, Ph.D.
Director
UCP has a lot to celebrate!

- **GLOBE** and **Unidata** have won recompetition!
- **COSMIC** II became an official federal program, courtesy of the hard work of Scott Rayder and his team.
- **Spark** has a new director (**John Ristvey**), a new name – **UCAR Center for Science Education** and is working on a new climate exhibit for NCAR’s Mesa Lab.
- **JOSS** supported the roll out of the National Climate Assessment and continues its support of IPCC AR5.
- **COMET** is expanding its reach beyond training to decision support and saw an FY14 increase of almost 30% over FY13.
- **VSP** continues to support a growing list of fellowships and has expanded its work with the heliophysics community.
- **DLS/NSDL** is expanding its work with virtual education communities through its Curriculum Customization Service and is looking at new repository architecture to support UCAR Education efforts.
FY14/FY15 By the Numbers

- FY14 Projection: $42.5M
- FY14 Received: $50.3M
- FY15 Projection: $40.0M

![Pie Chart]

**Very Conservative**

- JOSS: 32.05%
- Unidata: 12.28%
- VSP: 25.79%
- COMET: 10.85%
- GLOBE: 5.23%
- COSMIC: 9.48%
- DLS: 2.18%
- SciEd: 2.15%

**NCAR UCAR Community Programs**
From the Directorate Side

- New Director of Business and Operations, Lana Kimayeva
- More integration of business and support services
- Creating UCP-wide opportunity dashboard, increasing partnership and improving B&P offerings
- Strengthening ties between UCP and the PO and NCAR
- The Role of UCP in the Strategic Plan is huge!
Better Communication

- Monthly Newsletters (complete with blog)
- Weekly updates (to Pres. Council, UCP Dirs, etc.)
- New Webpages
- New Capabilities Briefings

**K-12 Education**

*What is UCAR Education?*

UCAR’s formal education programs combine the state-of-the-art science and engineering? from NCAR and our UCAR institutions with research-based best practices in curriculum development, instructional design, teacher professional development, educational technology and evaluation, offering a comprehensive suite of STEM education capabilities to meet student and teacher needs.

*What does UCAR offer?*

- Virtual and In-Person Teacher and Student Programs, with an emphasis on climate, weather and atmospheric sciences.
- STEM Content Libraries for K-20 students, including NSDL, DLESE, and MetEd.
- Synchronous and Asynchronous Teaching Platforms and Virtual Education Communities, incorporating the latest in instructional design.
- National and International Networks of STEM Teachers and Students
- End-to-End Evaluation Capabilities

**Contacts:**

Formal Education:
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International Education:
- Tony Murphy
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Virtual Education Communities
UCAR Education

• **GLOBE, Spark, DLS, COMET** and **UCAR Evaluation** did an inventory of UCAR K-12 education capabilities

• Opening up avenues for partnering with ASTC, NSTA, and other national/international groups

• Developed strategic integrated B&P targets for FY15, expanding beyond what the individual programs could do.

• **Tony Murphy** become NA Rep to the International Council on Education and Teaching (ICET), heading to the UNESCO Sustainable Education Workshop in November.
UCAR Education

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Wednesday’s Business Expo

Broader Impacts Opportunities
CLIMATE SERVICES

Earth System Observations and Modeling
Global and Regional Community Modeling
Translation for Impacts Understanding
Interpretation and assessment capacity

Data Visualization and Delivery

Training and Education
Decision Support

A Partnership with 104 UCAR Member Universities

Contact:
NCAR-Climate Science and Applications Program: Dr. Lawrence E. Buja (southern@ucar.edu, 303-497-1330)
UCAR Community Programs: Dr. Emily A. CoBabe-Ammann (ecobabe@ucar.edu, 303-497-8664)
The UCAR Climate Services Website

The Directory, teaching materials, COMET modules, partnering opportunities, news and views.....A place for you to showcase your efforts, services, and find the partners you need

Climate Services at UCAR

Climate Change: a Social Perspective

NCAR social scientist Pary Romero-Lankao served as a Coordinating Lead Author for the Intergovernmental Panel on Climate Change's Fifth Assessment Report.

View more

What are Climate Services?

UCAR/NCAR CLIMATE SERVICES

Earth System Observations and Modeling
The UCAR Climate Services Directory

Searchable database of UCAR Climate Researchers, their affiliations and areas of interest.

Status: Preliminary pages for each UCAR institution are ready for ground truthing

**Asking for UCAR Reps to review content – both people and research interests by December 2014**
Evaluating Climate Products and Programs: Meeting End Users Needs and Reaching User Driven Service/Science

**Evaluation** is a research-based approach to ensure that climate programs/products take into account:

- **The Needs of the User** (not always the question they are asking)
- **The Terrain** within which the user is making decisions
- **The Knowledge Base** the user starts with (changes over time)

Evaluation allows the climate product developer to:

- **Understand** how their product is being used
- **Improve** their product over time to meet a widening array of users
- **Demonstrate** the efficacy and utility of the product
- **Engage** the user community, formally and informally, in the current and future directions products are taking (=*user-driven service/science*)
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UCP University Advisory Group

- **Goal:** To develop strategies that increase UCP’s ability to partner with and support UCAR institutions.
- **Videoconferences ~ once/quarter;** Face-to-face at Member Mtg.

**Current Members:**

- Dr. Liz Ritchie, University of Arizona (PACUR rep)
- Dr. Dave Dempsey, San Francisco State University (Unidata rep)
- Dr. Rich Clark, Millersville University
- Dr. Everette Joseph, SUNY-Albany (or a player to be named later)
- Dr. Vicky Arroyo, Georgetown University
- An additional PACUR Rep

*Looking for 2 additional university reps... Come see me!*
COMET’s 2024 Initiatives

Transition Concept: Build A Little - Test A Little - Change A Little - Repeat

Two Examples

Millersville
University/Bureau Of Met
In Australia

- UCAR UVisit
- COMET Staff Adjunct
- COMET Classroom Media Elements and Tools
  - Case Studies
  - Tools - QG-Omega, Thermal Wind, PGF, etc
- 40 Different Media Elements

University of Oklahoma

- COMET - Cost Recovery
- COMET Instructional Guides/Labs
- COMET Classroom Media Elements and Tools
  - Case Studies
  - Tools - QG-Omega, Thermal Wind, PGF, etc
- 40 Different Media Elements

Goal is for COMET/UCAR to Support and Serve University Instruction through development of a package of services.
COMET’s Univ/Industry Initiatives

Goal is the partner with industry and member Universities to fund research

COMET/Private Sector Partner/Millersville

- Found Grant Opportunities and Partnering.
- Focus on bringing interested member universities to the table
- NOAA R2O Opportunity
- Demonstration to see if we could develop a short notice collaborative proposal.

Goal is for COMET/UCAR to Support and Serve University Research through partnering in grants focused on industry and public sector needs
Questions?

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