UCAR Community Programs

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UCP Director
UCAR Community Programs (UCP)

• Education, Service, Community Building, and Innovation are the hallmarks of the UCAR Community Programs. UCP's vision and mission are:
  – **Vision.** Bring communities together to address large-scale, integrated research and education issues.
  – **Mission.** Provide leadership, services, and innovation in support of UCAR community education and research goals.
UCP Service Areas

- Data Services & Software
- Technical, Field and Administrative Support for Community Projects and Programs
- Educational Resources and Technologies for Students, Teachers and Researchers Worldwide
- Professional Development and Training
- Visitor Programs for Students, Postdocs and Scientists
- Innovative Ground and Space-Based Environmental Observing Systems
UCP History

• Most UCP programs began as community grass-roots initiatives.
  – UCP is more service-oriented than research-oriented and focuses on making sure community science gets transferred in novel ways to the broader community and beyond.

• Community involvement, governance, and service are central attributes to UCP programs.

• UCP has proven to be flexible and responsive to community and sponsor needs and an effective home for novel and integrating partnerships.
Current Status of UCP Programs

• Feeling the same budget pinch as everyone else
• Most programs are stable with some shrinkage
• A few are more challenged (e.g. COMET, GLOBE, NSDL, COSMIC)

First Priority: Program stabilization and looking to shore up resources for core missions
FY14 Projections

UCP FY14 Projected Operating Budgets by Program
$42,459,355

- COMET 10.01%
- COSMIC 11.78%
- DLS 3.66%
- GLOBE 8.50%
- JOSS 30.72%
- Unidata 10.15%
- VSP 23.14%
- Spark 2.03%

- Conservative estimates
- Includes full year for GLOBE
- Unidata includes several Earth³ proposals.
- COMET is up $500k over FY13 – expected to grow
- Spark projection does not include its G&A funding
- NSDL is currently planning to sunset in FY14, though its status may change – rolled into DLS
- UCAR/JOSS signed its new USGCRP contract
A Transformative Summer for Spark

- Management restructuring
- Evaluator added
- Addition of UConnect
- New Director search underway

Informal Education: ML Exhibits, Tours, Events
Undergraduate Education: SOARS and related programs
Public Outreach: UConnect
Formal Education: Teacher programs and K-12 UConnect

Why is this important for UCAR Members?

Programs designed to support Broader Impact components of NSF proposals, complete with boiler plate language, budget templates, and standard contractual language.
UConnect: A New UCAR Outreach Program

UConnect @ UCAR

Weather and Climate Resources for Everyone

UConnect is a free and open collection of audience-focused & topic-driven digital resources accessible across all platforms & devices. It takes a novel playlist approach that is active, emergent, and responsive to the needs of UCAR’s varied audiences.

Who does UConnect serve?

• The general public and the media
• K12 teachers and students
• Higher education faculty and students
• Business and government

Rich Collateral:

- Classroom activities/lessons
- Slide sets, images, graphics, animations
- Fact sheets, tutorials, capability briefs
- Weather/climate briefs on latest research
- Synchronous and asynchronous webinars, courses, and virtual field trips
- Exceptional resources from UCAR leaders
- Interactive web tools that foster sharing, discussions and communities of practice
- Links to exceptional external resources

Break out session!
Strategy: Building on Existing Core Strengths: UCAR Education & Interactive Online Learning

Goals:

- **UCAR Science**
- **SPARK/GLOBE**
- **COMET**
- **DLS/NSDL**
- **Evaluation**

Products/Programs:

- TEDx
- Ignite
- Service Learning
- Online PD
- Virtual Classes
- Etc.

Targets:

*Teachers, General Public, Professional Societies (NSTA, etc.)*
Strategy: Integrated Professional Services: Facilitating Weather and Climate Applications

Large-Scale Applications Projects

* Science Driven
* Project-by-Project Configurations
* Draws from UCAR Member Universities
* Requires New Capacity/Relationships
* Expanded Project Terrain

- Logistics
- Personnel Exchange
- Instr. Design & Delivery
- Data & Visualization
- Education & Outreach
- Proposal Capture
- Evaluation
- Project Management

Atmos. Science
Decision Science
Social Sciences
Geo Sciences
Agriculture
Risk Management
Climate Modeling
Economics

Begun 10/13
Strategy: Development of new Stand-Alone Programs

- UCP holds independent science-driven programs (e.g., COSMIC and UNIDATA)
- Other similar opportunities are presenting themselves in strategic areas
- These opportunities are often in the applications and operational realm, where UCP has strength

*UCP can be a hub for these activities, facilitating for the UCAR community*
Climate Services at UCAR/NCAR

• NCAR/UCAR Partnership
  Dr. Lawrence Buja, NCAR/RAL

• Goals:
  • Engage NCAR and UCAR scientists
  • Define a strategy to support their efforts
  • Building a network that let’s stakeholders find us – and helps us find each other
  • Navigate a position, both nationally and internationally

Break out session!

UCP Philosophy: We can provide the Bridge from Data to Stakeholder
UCAR/NCAR CLIMATE SERVICES

Earth System Observations and Modeling
Research to understand our Planet

Translation for Impacts Understanding
Providing context for applied problems

Data Visualization and Delivery
Putting data into the hands of stakeholders

Training and Education
Preparing our nation’s workforce

Decision Support
Helping users on the ground

Agriculture | Health | Risk | Energy | Water | Transport
How does this benefit universities?

• Provides facilitation and operational support beyond those universities have traditionally had within their institution

• Allows UCAR partners to expand their knowledge-base, both in terms of new arenas of activities and of new disciplines across UCAR

• Allows UCAR to be the ‘honest broker’ on behalf of our university partners
Unidata Regional Workshop
Millersville University
October 21-22, 2013
Deadline to Register: October 14, 2013

The workshop will also include hands-on session showcasing the GEOScience Probe of Discovery (GEOPOD), an NSF funded project that leverages Unidata's IDV to create an interactive 3-D learning environment where students can navigate a virtual probe through real geophysical data and actuate devices to explore and discover the atmosphere.

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Questions?

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