

## ARM's User Executive Committee (UEC): Introduction, Subgroups, and Activities

**Allison C. Aiken**  
UEC Chair

### *2021 UEC Membership*

- **Allison Aiken (Chair)** - Los Alamos National Laboratory
  - **Susannah Burrows** - Pacific Northwest National Laboratory
  - **Scott Collis** - Argonne National Laboratory
  - **Jessie Creamean** - Colorado State University
  - **Jennifer Delamere** - University of Alaska Fairbanks
  - **Daniel Feldman** - Lawrence Berkeley National Laboratory
  - **Scott Giangrande** - Brookhaven National Laboratory
  - **Xiaohong Liu** - Texas A&M University
  - **Christina McCluskey** - National Center for Atmospheric Research
  - **Arthur J. Sedlacek** - Brookhaven National Laboratory
  - **Adam Varble** - Pacific Northwest National Laboratory
  - **Yunyan Zhang** - Lawrence Livermore National Laboratory
  - **Youtong Zheng** - Geophysical Fluid Dynamics Laboratory/Princeton University
  - **Paquita Zuidema** - University of Miami
- ARM Technical Director*
- **Jim Mather** - Pacific Northwest National Laboratory

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- **The UEC communicates the needs of the user community to the ARM Technical Director**

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- **Previous Efforts**

- Contributed to the redesign of the ARM.gov website and ARM Data Discovery
- Developed new ARM tutorials
- Conducted outreach at professional meetings with other scientific communities

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- **Goals and Objectives for the Coming Year**

- Form new subgroups to address new and continuing efforts
- Communicate instrument calibration and measurement uncertainties
- Outreach to undergraduate institutions to increase diversity
- Enhance communication with satellite and modeling communities
- Create new avenues for virtual engagement and social media outreach

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Allison Aiken  
Los Alamos  
National Laboratory

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Pacific Northwest  
National Laboratory



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Argonne  
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University of Alaska Fairbanks

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Paquita Zuidema  
University of Miami

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- **Measurement Uncertainty and Communicating Calibrations**



- Chair: Daniel Feldman
- Mission: Prioritize community-gathered suggestions to improve bias and uncertainty quantification and their communication to users
  - Ensure transparent communication while emphasizing high information content of observations for broad science goals
  - Develop recommendations to quantify uncertainty and broaden communication that incorporates ongoing efforts

- **Undergraduate Outreach and Increasing Diversity**



- Chair: Scott Collis
- Mission: Provide recommendations to enable ARM stakeholders to increase diversity and make our science more equitable
  - Identify opportunities to engage with existing programs, e.g., U.S. DOE internship programs
  - Brainstorm undergraduate programs and needs to make informed recommendations for classroom modules, tutorials, etc.



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- **Enhancing Communication with the Satellite Community**



- Chair: Jennifer Delamere
- Mission: Propose strategies to enhance communication and promote new coordination
  - Recommend to expand satellite information on ARM.gov
  - Generate ideas to integrate satellite data into deployments
  - Discuss pathways to educate users about satellite data sets

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- **Enhancing Communication with the Modeling/E3SM Community**



- Chair: Susannah Burrows
- Mission: Develop new ideas and approaches to overcome identified challenges to increase engagement
  - Improve ARM's engagement with climate modelers as it has with large-eddy simulation and regional model developers
  - Challenges: bridging multiple scales, confronting representation issues, translating measurements and models to achieve one-to-one comparisons, limited bandwidth

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- **Chat with us more during the meeting**
  - UEC networking session: Monday 4:15–5 pm Eastern
  - Contact page: <https://www.arm.gov/connect-with-arm/organization/user-executive-committee>
- **UEC links and references**
  - Home page: <https://www.arm.gov/about/constituent-groups/uec>
  - “From the UEC Chair” blog: <https://bit.ly/3opSEXw>
  - Member bios: <https://www.arm.gov/about/constituent-groups/uec/bios>
  - Earth Day videos: <https://www.arm.gov/news/blog/post/69084>