# **OPENACC BOF at SC21**

More Science. Less programming.

https://www.openacc.org/events/openacc-birds-feather-bof-sc21

Tuesday, November 16, 2021 | 5:15 to 6:45 PM CST | Online



#### OpenACC BOF @ SC21 Tuesday, Nov 16, 2021

- Welcome and OpenACC Organizational Update Jack Wells, NVIDIA (5 Minutes)
- OpenACC Specification Update Jeff Larkin, NVIDIA (7 Minutes)
- Compiler Implementations
  - HPE Updates: Barbara Chapman, HPE (6 minutes)
  - GCC Updates: Catherine Moore, Siemens (6 minutes)
- Porting Scientific Applications with OpenACC: Real-world Use Cases (7 minutes)
  - On the Road to Code Portability Stéphane Ethier, PPPL
  - Can Fortran's 'do concurrent' Replace Directives for Accelerated Computing? Ron Caplan (Predictive Science)
- Training and Education, Julia Levites, NVIDIA (7 minutes)
- Questions, General Discussion from the BOF. (45 minutes)

### **OPENACC ORGANIZATION MISSION**

The OpenACC Organization is dedicated to helping the research and developer community advance science by expanding their accelerated and parallel computing skills. We have 3 areas of focus: participating in computing ecosystem development, providing training and education on programming models, resources and tools, and developing the OpenACC specification.



### PILLARS OF OPENACC ORGANIZATION

ECOSYSTEM DEVELOPMENT	TRAINING & EDUCATION	OPENACC SPECIFICATION
<ul> <li>Work with Language Standards committees</li> <li>Apply collective lessons learned</li> <li>Bridge gaps in base languages</li> <li>Develop roadmap for interoperability</li> <li>Strive for performant interoperability</li> </ul>	<ul> <li>Hackathons/Bootcamps</li> <li>Focus on accelerated computing</li> <li>Training Materials:</li> <li>Courses</li> <li>Containers</li> <li>Workshops</li> <li>Programs for educators, students, mentors</li> </ul>	Develop OpenACC Specification by introducing new features and functionality

### **OPENACC – CELEBRATING 10 YEARS**

Accelerating Science. Building Community.



#### Thank you, OpenACC members, for all the hard work and support!



### **OPENACC DIRECTIVES**

a directive-based parallel programming model designed for usability, performance and portability

APPLICATIONS	PLATFORMS SUPPORTED	COMMUNITY
<b>250+</b> 3 out of Top 5	NVIDIA GPU X86 CPU POWER CPU Sunway ARM CPU AMD GPU	~2900 Slack Members

## TRAINING AND EDUCATION

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