ACM SIGHPC Education Chapter Annual Meeting

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Chair, SIGHPC Education Chapter

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Welcome!

- Thanks for joining us!

- Today's agenda:
  - Highlights from the past year
  - Current committee activities
  - Discussion to get feedback from you
  - Wrap-up looking ahead to next year

- Excited to hear your thoughts about the chapter!

2023 Chapter Activities

- Workshops
  - PEARC23
  - SC23

- Webinars
  - Global Seminar Series from CHPC and EPCC
  - Computational Physics in the Classroom
  - EESI scientific software stack
  - Archived on YouTube channel (https://www.youtube.com/@chairsighpceducation1083/featured)

2023 Chapter Activities

- Quarterly newsletter
  - Keep you informed about chapter happenings
  - Planning to expand it in 2024

- Undergraduate summer opportunities
  - List available at https://sighpceducation.acm.org/resources/ugsummerresources/
  - Please let us know about additional programs!

- Surveyed membership
  - Thanks to those of you who responded!
  - Planning to improve promotion of chapter events

Chapter Committees

- Organized into 5 committees, focused on different parts of our mission
  - Computational Science Education
  - K-12 Education
  - Outreach
  - Workshop
  - System Professionals
- Brief presentations from each about their past activities and future plans

Computational Science Education Committee

- Kate Cahill, NJIT & David Joiner, Kean University – co-chairs

- Starting monthly meetings January 24, 2024 9am eastern

- Metadata working group – HPC-ED project https://hpc-ed.github.io/

- Review/Share Curriculum projects & initiatives

- Interested in ideas for working groups

- Send us your ideas for topics, speakers, or projects to highlight

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K-12 Committee Goals

- Led by Dhruv Chakravorty (dkchaks1@gmail.com) and Georgia Stuart (gstuart@umass.edu)

- Develop pathways for K-12 students to learn about HPC and Data Science

- Identify and curate resources for this audience

- Support professional development for teachers

- Build community for people working with K-12 students

SC Teach the Teacher

- Begun in SC22

- Official part of the SC23 program (on Saturday)

- For high school teachers interested in incorporating cybersecurity and data science into curriculum

- IEEE education certificate awarded

- Great hands-on experience and opportunity for teachers to learn more about the SC community

Outreach Committee

Steven Gordon, co-chair (sgordon20@gmail.com)

Weronika Filinger, co-chair (w.filinger@epcc.ed.ac.uk)

Activities for 2023

- Promote the chapter's education goals through webinars, blog posts, and social media

- Maintain communication channels through announcements of chapter events and activities

- 2023 accomplishments
  - Major update of the website
  - Five webinars on a variety of education and training topics
  - Additions to the chapter blog
  - Promotion of chapter workshops at major conferences

Volunteer for 2024

- Contribute a blog post to highlight your related training and education activities

- Participate in a webinar
  - Single topic providing an overview of a major project
  - Panel discussion on approaches to computational science and HPC education and training

- Update the list of training and education materials on the SIGHPC Education website. Check the current list for broken links, find updated links.

- Serve on the committee to guide outreach activities

ACM Sighpc Education Chapter Workshops Committee

coordinating and managing in-person and virtual events to bring together the community to discuss topics of interest

Accomplishments include:

- 9 Years of working with and supporting community

  -Members from over 16 countries
  -Education and Training workshops in many national and international conferences in including SCXX, PEARCXX and ISCXX
  -Best Practices in HPC Training and Education sessions completed 10 Year at Sc23
  -Workshops planned for PEARC24, ISC 24 and SC24
  -Please suggest other conferences we should pursue.
  -Outreach Activities in international conferences and events
  -Numerous BOFs
  -Publication in Journal of Computational Science Education

- Please email at nitin.sukhija@sru.edu to join.

Leadership

- John Blaas (NCAR) - Chair
- David Clifton (Ansys) - Vice Chair
- John Legato - Treasurer
- Adam Hough - (Shell) - Secretary
- Stephen Fralich - (Boeing) - Membership Chair
- William Scullin - (Laboratory for Laser Energetics) - Member-at-Large
- Honwai Leong - (DDN) - Member-at-Large

At a glance

- SC Workshop
  - Half day workshop on Sunday in the morning
- PEARC BoF
  - Well attended BoF that was put on by Jenett Tillotson
- Active Slack - over 1,000 members now
- Active Member count: 113 dues paying members
- Social Events
  - We have been putting on social events with the CaRCC Systems Facing group
    - PEARC
    - SC

SIGHPC Education Plans for next year

- SC Workshop
  - Planning to submit again for a full day workshop slot
- PEARC Workshop
  - Planning to submit again for a workshop at PEARC
- ISC BoF
  - First proposed event at ISC
- HPC-AI Swiss Conference
  - collaborating with HPC Advisory Council on program

- Stronger support for Students @ SC
- Leadership elections!

Plans for 2024

- Global Seminar Series: "Diary of a Pawsey Intern"
  - Panel discussion showcasing student perspectives on 10-week HPC summer internships in Australia
  - Late February
- 2024 Award for Outstanding Contributions to Computational Science Education
  - Nominations will open in March
  - Consider nominating someone to recognize their achievements
- Elections in April
  - All positions are up for election for 2-year terms
  - Consider running to help shape the chapter!

Thanks!

- We appreciate your involvement!
- Feel free to reach out to us with ideas anytime
- Join the Slack channel: https://bit.ly/sighpcedu_slack