Chapter Purpose

• Promotion of interest in and knowledge of applications of High Performance Computing
  • Promote an increased knowledge of the educational and scientific aspects of HPC and their applications.
  • Communication among individuals having an interest in education and career building.
  • Conduct and promote formal and informal education activities
  • Provide guidance to the community on the competencies for computational modeling, simulation, data analysis, and visualization techniques.
  • Provide information on quality educational programs and materials
Current Officers

- Chair – Steven Gordon
  - Professor Emeritus, Ohio State University and Senior Education Lead, Ohio Supercomputer Center
- Vice Chair – David Halstead
  - CIO and Head of IT National Radio Astronomy Observatory
- Secretary/Treasurer – Deborah Schwartz
  - Associate Director for Next Generation Workforce Development, DoD High Performance Computing Modernization Program
Next Organizational Steps

- Opening on board for member at large
  - Send nominations to Steve Gordon (sgordon20@gmail.com) with the name and contact information for the nominee
  - Will create a slate of candidates and conduct an election online
- Future virtual meetings
  - Using Google Hangout on Air
  - Announcement of meetings sent to member list
Joining the Chapter

- Membership is cheap
  - $10 regular member
  - $5 for students
- Go to [http://sighpceducation.acm.org/](http://sighpceducation.acm.org/)
  - Link to membership site on membership tab
Variety of topics

- Academic programs in computational science and data science
- Certificate programs
- Competencies and skill requirements for professionals
Current Academic Programs

• Review of academic program models at different institutions
  • Undergraduate minors and concentrations
  • Graduate programs
• Variety of program foci
  • Multi-disciplinary programs
  • Focus on one or two disciplines (e.g. bioinformatics)
  • Data science programs
Certificate Programs

- Programs at academic institutions
- Certification through various projects and not-for-profit institutions for example
  - Software carpentry
  - XSEDE training
- Continuing Education
  - Making programs available to current professionals
  - “Training on demand”
- Needs for additional programs
- Should there be some accreditation of programs?
Competencies

- Defining what skills are required
  - Undergraduate programs
  - Graduate and professional programs
- Technical skills
- Domain knowledge
- Possible endorsement of skill sets
Proposed Activities

- Monthly webinars on a variety of topics
  - Discussion of computational science skills needed in workforce and possible certification efforts
  - Curriculum examples – from existing undergraduate and graduate programs
  - Curriculum in newer data science programs
  - Review of available training and education materials
  - Other?
- Quarterly newsletter
- Special interest groups on education and training topics
Need Your Suggestions

- Topics for discussion
- Possible speakers
- Other suggestions for communications for this virtual chapter