

Introduction to Volume 14, Issue 2

David Joiner
Editor
Kean University
Union, NJ
djoiner@kean.edu

FOREWORD

This issue will focus on papers presented at the Sixth Workshop on Strategies for Enhancing HPC Education and Training (SEHET23) at the 2023 Practice & Experience In Advanced Research Computing conference (PEARC23), as well as 2 papers from the 9th Best Practices in HPC Training and Education (BPHTE22) workshop at SC22.

The 9th annual workshop on Best Practices in HPC Training and Education was held on Monday, November 14th, in Dallas TX, and many of the talks for this meeting were featured in Issue 1 of this year. Two additional papers are presented in Issue 2.

Lawrence et al. describe advancements in the Summer Computing Academy (SCA) at High Performance Computing centers and Computer Science departments, focusing on Data Sciences and Cybersecurity for secondary school students. Chakraborty et al. present a series of credentialed short courses designed to provide university students and researchers with vital digital skills in high performance computing, complemented by micro-credentials that integrate with existing academic programs.

The 6th workshop on Strategies for Enhancing HPC Education and Training was held on Monday, July 24, 2023. 5 papers from this conference are presented in this issue.

Bautista and Sukhija present a project addressing the need for diversity in High Performance Computing (HPC) and STEM fields, in which the National Energy Research Scientific Computing Center (NERSC) at Lawrence Berkeley National Lab partnered with a community college to create a pathway for students from disadvantaged communities. Ponce and van Zon discuss the importance of cybersecurity awareness among end-users of

remote computing systems, offering training techniques to mitigate cyber threats. Mehninger et al. present the findings of a survey conducted to understand how the High Performance Computing (HPC) community shares and discovers educational and training materials, exploring whether current methods meet their needs and the interest in enhancing these processes. Jezghani et al. present a comprehensive overview of the Lucata Pathfinder system at Georgia Tech's Rogues Gallery and its role in advancing High Performance Computing (HPC) education, particularly the challenges of designing instructional material for new and novel architectures. Speyer et al. describes a joint project between Arizona State University and CR8DL, Inc., which deployed a Jupyter-notebook-based interface to datacenter resources for a semester-long computational biochemistry course.

These 7 papers present exciting and novel work in the field of computational science education, and JOCSE is excited to continue partnering with these organizations to bring these to you. We thank the work of all of the reviewers, workshop chairs, and committee members involved. While we cannot list them all here, I would like to especially thank Nitin Sukhija and Nia Alexandrov for their continued work with these two events.

We hope to see your future papers submitted here to JOCSE, and appreciate your continued support of JOCSE as well as of the SEHET and BPHTE workshop series.

Sincerely,
Dave Joiner