

CALL FOR PARTICIPATION



RICE KEN KENNEDY
INSTITUTE
AI, Data, and Computing for Global Impact

ENERGY HIGH PERFORMANCE COMPUTING CONFERENCE

MARCH 1-3, 2022 | HOUSTON, TX | RICE UNIVERSITY



You are invited to prepare an extended abstract for presentation at the 15th Annual 2022 Energy High Performance Computing Conference by the Ken Kennedy Institute at Rice University, March 1-3, 2022. The conference is the premier meeting place for the energy industry to engage in conversations about challenges and opportunities in high performance computing, computational science and engineering, machine learning, and data science. Attended by leaders and experts from the energy industry, academia, national labs, and IT industry, this is a unique opportunity for key stakeholders to engage and network to help advance HPC in the energy industry.

Computation, data, and information technology continue to stand out across the energy industry as critical business enablers. Recent advances in machine learning, deep learning, robotics, and AI are emerging, and there is convergence between these emerging areas and HPC. With the end of Moore's law, challenges are mounting around a rapidly changing technology landscape. However, the end of one era is also an opportunity for advancements and the beginning of a new era – a renaissance for system architectures highlights the need for investments in people (workforce), algorithms, software innovations, and hardware platforms to support system scalability and demands for increasing digitization across the energy sector.

The conference program will feature a mix of invited talks by leading experts, complemented by thematically organized sessions with recorded talks selected from submitted abstracts. We invite prospective speakers to submit abstracts that highlight technology, use-cases, and solutions that support data-driven discovery and decision making.

Accepted abstracts will be asked to deliver a **20-minute presentation**, including Q&A, as part of the conference program. Presentations will be live-streamed to those who are unable to attend in person as well as recorded and published online on the Ken Kennedy Institute's YouTube channel. **Please do not submit an abstract for a talk if you are uncomfortable sharing your work with our virtual audience. Presenters will need to sign a Media Release Form.**

Please use the following guidelines when preparing your extended abstract submission:

- One page (not including graphics, bio, and references as needed).
- Extended abstracts should contain: title; list of all author(s) with identifying and contact information; short abstract (not to exceed 350 words); up to 5 keywords; followed by short sections covering: (1) Motivation, (2) Hypothesis, (3) Methods and Results, and (4) Conclusion. Please review the [abstract template](#).
- Extended abstracts must be uploaded as a PDF in EasyChair.
- The short abstract and the keywords from your extended abstract must also be pasted into the appropriate text box in the web submission form in EasyChair.
- To submit, go to energyhpc.rice.edu.

Note 1) This conference will consider and can accept abstracts for work that have previously been presented. **Note 2)** Presentation proposals that appear to the program committee as “marketing” will be rejected. Abstracts with a strong and compelling customer use-case with the focus on the innovation knowledge discovery enabled by the solution more than the product can be considered. Vendors interested in engaging are also encouraged to explore sponsorship.

Complimentary Registration: Upon abstract acceptance, the presenting speaker for the technical talks (1 per talk) will receive a complimentary registration code (February 1).

IMPORTANT DATES:

January 25: Abstract Submissions Due
February 7: Abstract Acceptance Notice
February 15: Poster Submissions Due
March 1-3: Conference

CONFERENCE CHAIR:

Angela Wilkins, Ken Kennedy Institute,
Rice University

CONFERENCE COMMITTEE:

Mauricio Araya-Polo, TotalEnergies
David Baldwin, Shell
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Jeremy Singer, ExxonMobil
Noella Soares, Shell
Suzy Tichenor, Oak Ridge National
Laboratory
Cheng Zhan, Microsoft
Muhong Zhou, NAG

VENUE:

Rice University
BioScience Research Collaborative (BRC)
6500 Main Street
Houston, TX 77005

CONTACT:

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