

CALL FOR PARTICIPATION



OIL AND GAS

HIGH PERFORMANCE COMPUTING CONFERENCE
MARCH 5, 2021 | VIRTUAL



You are invited to prepare an extended abstract for presentation at the 14th Annual 2021 Oil & Gas High Performance Computing Conference by the Ken Kennedy Institute at Rice University, March 5, 2021. 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 more than 500 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 record a 10-15 minute presentation as part of the conference program. All recorded abstract presentations will be reviewed by the committee prior to final approval into the conference.

For the virtual conference, recorded presentations will be published in the conference portal and website. Speakers will be able to answer attendee's questions through the chat feature in the conference portal. Following the conference, the presentation will be posted on Ken Kennedy Institute's YouTube channel, and a PDF copy of the slides can be shared on the conference web page (optional).

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 og-hpc.rice.edu.

Note 1: This conference will consider abstracts for work that has 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.

Please share the call for participation with anyone that you think might be interested in submitting an extended abstract and/or attending the 14th Annual 2021 Oil & Gas High Performance Computing Conference by the Ken Kennedy Institute at Rice University.

IMPORTANT DATES:

January 15: Extended Abstracts Due

Ongoing: Abstract Decision

February 1: Accepted Abstract Recordings Due

Ongoing: Recorded Presentations Approved + Posted Online

March 5: Conference

CONFERENCE CHAIR:

Angela Wilkins, Ken Kennedy Institute, Rice University

CONFERENCE COMMITTEE:

Mauricio Araya-Polo, Total
David Baldwin, Shell
Sverre Brandsberg-Dahl, Microsoft
Jesse Chan, Rice University
Donny Cooper, Total
Bosen Du, AMD
Erik Engquist, Rice University
Melyssa Fratkin, TACC
Keith Gray, BP
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Alex Loddock, Chevron
Tom McDonald, ExxonMobil
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Ernesto Prudencio, Schlumberger
Michael Schoemann, Equinor
Jeremy Singer, ExxonMobil
Noella Soares, Shell
Cheng Zhan, Microsoft
Muhong Zhou, NAG
Ling Zhuo, Chevron

VENUE:

Virtual Conference

CONTACT:

Rice University
Ken Kennedy Institute
kenkenedy@rice.edu