



May 2019

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## In Memoriam: Louise H. Kellogg 1959-2019

Louise Kellogg was a leader in the CIG community since its early phases leading to her role as Director of CIG beginning in 2010. Her influence spread beyond geodynamics with life-long interests in the arts, promotion of underrepresented groups in the sciences, and scientific visualization. These were amongst the many activities that she lent her leadership and insight over the years. Her support of team science and the community around it is characterized by its openness and equity. As a friend of many years and later a colleague, I have felt myself fortunate to have worked alongside her the past 7 years and will miss the collegial conversations as well as her insights and discernments.

We welcome the community to the UC Davis campus on **Sunday June 2 @11A** in remembrance of Louise, a visionary leader, colleague, and friend whose loss will be felt widely. We will post more information on our [website](#) as it becomes available.

If you wish to express messages of sympathy and memories of Louise and/or if you plan to attend please send a message to [memories-of-louise@ucdavis.edu](mailto:memories-of-louise@ucdavis.edu). [[In Memoriam](#)].

*Contributed by Lorraine Hwang*

## Message from the Executive Committee

Like the rest of the geodynamics community, the members of the Executive Committee (EC) found ourselves in shock and profound grief at the news of Louise's passing. Louise was passionate about the future of CIG and was actively planning a new round of community engagement to develop a plan for CIG IV. Louise had shared with us her need to take a period of medical leave and suggested we invite Magali Billen to act as interim director, and co-PI together with co-PI Dr. Lorraine Hwang, whenever she was absent. Magali is a long-time member of the CIG community and recent member of the Executive Committee. We all felt that she was a logical and excellent choice to shepherd CIG.

We recently voted to formally endorse Magali as the Interim Director for CIG and to ask NSF to nominate her as the lead PI on the CIG grant. The University of California, Davis administration is in agreement that this is a necessary step and that it needs to be done without delay to ensure that CIG, as an organization, can continue to operate.

In asking Magali to step up to this role, the EC recognizes that we are asking her to take on a very significant leadership task at short notice and we have assured her that we will offer whatever support she needs to make the transition a success.

The EC plans to hold an extraordinary meeting within the next one or two months to manage the leadership transition. If any members of the CIG community would like to provide input to the EC for this meeting, please feel free to email [ec@geodynamics.org](mailto:ec@geodynamics.org) or contact individual members of the EC directly with your suggestions and concerns. Individual email addresses of members of the EC can be found on our [governance](#) page.

*Contributed by Louis Moresi, Executive Committee Chair*

## Research Highlight

### CIG Participates in Early Testing on Frontera

In the next months, the new NSF-funded Petascale Computing System [Frontera](#) will open for early testing at the Texas Advanced Computing Center (TACC). Frontera will be approximately twice as powerful as the current XSEDE flagship supercomputer Stampede2. It will provide a leadership-class computing resource to enable much larger and more complex research challenges than previously possible and push the boundaries of currently available numerical methods.

NSF has awarded CIG 0.27 million node hours to participate in Frontera's early testing phase from May 2019 to January 2020, which will be used to benchmark the performance of existing CIG software and further its scalability using new numerical methods in preparation for wider community use. Specifically, we will focus on testing and developing the CIG codes ASPECT and Calypso for mantle and core dynamics, respectively. In addition to research on numerical methods to reduce scalability bottlenecks applicable to a range of CIG codes, we will also conduct "proof-of-concept" simulations that target outstanding geophysical questions that were intractable with the current generation of HPC systems. ... [[continued](#)]

For more information and updates on CIG Frontera activities throughout the year, look for announcements on the CIG [Webpage](#) or [Forum](#).

*Contributed by Julianne Dannberg, Rene Gassmoeller, Hiro Matsui, and John Naliboff*

## 2019 - 2020 CIG Speaker Series

We are please to announce two [speakers](#) for the 2019-2020 CIG Speakers Series:

- Sylvain Barbot, USC. *From Grains to Tectonic Plate Boundaries*
- Jolante Van Wijk, New Mexico Tech. *What Creates the Unique Topography of East Africa?*

We encourage applications to host speakers from a wide range of disciplines and undergraduate institutions that increase the diversity of our community. Speakers will be available to meet with students and faculty during their visit. More information about hosting a speaker can be found [here](#). Please [apply](#) before June 15 for full consideration.

## 2019 Summer Workshops

Deadlines for CIG summer workshops are rapidly approaching:

- 2019 Crustal Modeling Workshop, June 10-14, Golden, Colorado. Registration closes May 15.
- 2019 Rayleigh Hackathon, July 22-26, Boulder, Colorado. Registration closes May 30.



### WEBINARS

**2019**

**May 16** - Mark Ghiorso

[More info](#)

[Connect to webinar](#)

### MEETINGS

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**2019**

**May 21-June 1:**

### NEW RELEASES

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ASPECT 2.1.0



*click the icon for citation info*

### ALLOCATIONS

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Stampede2: 65,501/85,608 SUs

Comet: 250,554/500,000 SUs

Comet GPU: 15,000/15,000 SUs

Oasis: 10,000/10,000 SUs

Ranch: 10,000 GBB

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