



UNIVERSITY OF CALIFORNIA
HIGH-PERFORMANCE ASTROCOMPUTING CENTER

March 12, 2013

****FOR IMMEDIATE RELEASE****

“STAR AND PLANET FORMATION” IS THEME
OF
2013 UC-HiPACC INTERNATIONAL ADVANCED SUMMER SCHOOL
ON COMPUTATIONAL ASTROPHYSICS
July 22–August 9

Applications Due Saturday, March 23

Star and planet formation are central drivers in cosmic evolution: they control generation of radiation, synthesis of heavy elements, and development of potential sites for life. Because star and planet formation involve numerous physical processes operating over orders of magnitude in length and time scale, computational simulations have become essential to progress in the field.

The objective of the 2013 UC-HiPACC AstroComputing Center advanced International Summer School on AstroComputing (ISSAC) is to train the next generation of researchers—current graduate students and postdoctoral fellows—in the use of large-scale simulations for problems in star and planet formation. The three-week school will cover many of the major public codes in use today, including tutorials and hands-on experience running and analyzing simulations. Students will receive accounts on the new 3,000-core supercomputer Hyades on the UCSC campus for the duration of the school.

ISSAC 2013 is directed by Prof. Mark Krumholz (UCSC), and is funded primarily by UC-HiPACC (Prof. Joel Primack, UCSC, director). Additional funds are being sought from NSF for student support and from DOE for infrastructure support. Students will be housed on the UCSC campus. UC-HiPACC will cover lodging at UCSC for all accepted students and also travel for UC-affiliated students. Some financial assistance for travel may be available for other students.

Applications are due March 23, 2013, although it may be possible to consider late applications. Students must apply by completing the online form at http://hipacc.ucsc.edu/ISSAC2013_Application.php.

Students who apply on time will be informed whether they are admitted by April 2, 2013. Upon acceptance, all students who plan to attend will pay a registration fee of \$500. Weekday lunches, coffee breaks, the school banquet, and a special excursion will be provided for attendees.

Past UC-HiPACC summer schools, their special topics, and locations have been: ISSAC 2010 Galaxy Simulations (UC Santa Cruz); ISSAC 2011 Computational Explosive Astrophysics (UC Berkeley/Lawrence Berkeley National Laboratory); ISSAC 2012 AstroInformatics (UC San Diego/San Diego Supercomputer Center). All lectures are online, at <http://hipacc.ucc.edu>. Information about the past schools along with photographs appear in UC-HiPACC's three-year report available at <http://hipacc.ucsc.edu/2010to2012Report.html>.

For further information and answers to questions please contact **Sue Grasso** in the UC-HiPACC office (email: hipacc@ucsc.edu, phone: 831 459-1531). Posters and flyers about ISSAC 2013 can be downloaded from <http://hipacc.ucsc.edu/ISSAC2013.html>.

ISSAC 2013 – Star and Planet Formation

Director: Mark Krumholz (UCSC)

Speakers and Topics will include:

Main lecturers: (giving 5 morning lectures each and leading afternoon workshops):

Robi Banerjee (U. Hamburg, FLASH)
Paul Clark (U. Heidelberg, GADGET / SEREN)
Patrick Hennebelle (CEA/Saclay, RAMSES)
Stella Offner (Yale, RADMC / HYPERION / CASA)
Tom Quinn (U. Washington, GASOLINE / CHANGA)
Jim Stone (Princeton, ATHENA)

Additional Lecturers:

Tom Abel (Stanford, first stars, ENZO)
Neal Evans (U. Texas Austin, observations of massive star formation)
Alyssa Goodman (Harvard, observations of low-mass star formation)
Phil Hopkins (Caltech, the IMF)
Meredith Hughes (Wesleyan, observations of protoplanetary disks)
Kaitlin Kratter (U. Colorado, binary formation)
Mark Krumholz (UC Santa Cruz, massive star formation)
Chris McKee (UC Berkeley, star formation rates)
Eve Ostriker (Princeton, the ISM/star formation connection)
Joel Primack (UC Santa Cruz, star formation and galaxy evolution)