

# THE INTERNATIONAL CONFERENCE ON STRONGLY CORRELATED ELECTRON SYSTEMS



**May 13–18, 2007  
Houston, Texas, USA**

**FIRST ANNOUNCEMENT**

**Organized by Rice University  
and University of Houston**



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\*to be confirmed

SCES'07  
Rice University  
Physics and Astronomy - MS61  
PO Box 1892  
Houston TX 77251-1892  
USA

AFFIX  
PROPER  
POSTAGE

## SCOPE

SCES'07 will cover a wide range of topics in the diverse area of strongly correlated systems. The correlated electronic and magnetic materials to be featured include f-electron based heavy fermion intermetallics, d-electron based transition metal compounds, and organic solids. Nanoscale structures and ultracold atoms in optical lattices, which have emerged as model systems to study correlation physics, will also be addressed. The conference will seek to deepen our understanding of the rich physical phenomena that arise from correlation effects. The anticipated focus will be on quantum phase transitions, non-Fermi liquid phenomena, quantum magnetism, unconventional superconductivity, and metal-insulator transitions. Both experimental and theoretical work will be highlighted. Mathematical models and computational studies will also be covered.

The conference will provide a forum to present new research and exchange new ideas. It will also facilitate cross fertilization among the different subjects, and introduce these subjects to junior researchers. Presentations will consist of plenary, invited and contributed talks/symposia complemented by busy poster sessions.

SCES'07 will add Houston to the long list of cities that welcomed the conference series: Sendai ('92), San Diego ('93), Amsterdam ('94), Goa ('95), Zürich ('96), Paris ('98), Nagano ('99), Ann Arbor ('01), Krakow ('02), Karlsruhe ('04), and Vienna ('05). Every three years since 1997, SCES has been joining the triennial International Conference on Magnetism, held in: Cairns ('97), Recife ('00), Rome ('03), and Kyoto ('06).

## CONFERENCE SITE

Houston, in the south of Texas, dominates the south coast of the United States. It is a vibrant city and the fourth largest in the country. Houston has been one of the world's most innovative cities, which has nurtured a superb arts scene. The Theater District is an important feature of Houston's great quality of life, and is located amidst elegant modern architecture rising from an urban forest.

Houston features international cuisine, weather that allows outdoor recreation all year and entertainment day or night at theme parks, major-league sports arenas and highly acclaimed museums. Restaurants and entertainment are a short walk in the downtown area and a ride on the METRO light rail takes visitors to the world-renowned Texas Medical Center, the beautiful Museum District, and the state-of-the-art Reliant Park sports and event facilities.

## CONFERENCE VENUE

SCES'07 will be held in downtown Houston at the Hilton Americas-Houston, the largest convention hotel in the city.

## TENTATIVE LIST OF TOPICS

- Quantum phase transitions
- Heavy fermion systems
- Quantum magnetism and frustrated magnets
- High temperature superconductivity
- Organic conductors and magnets
- Low dimensional systems
- Non-Fermi liquids and exotic quantum phases
- Unconventional and novel superconductors
- Kondo impurity and Kondo lattice systems
- Mott-Hubbard systems
- Interplay between spin-, charge- and orbital degrees of freedom
- Correlated electrons in nanostructures
- Quantum Hall liquids
- Mathematical models and computational studies
- Correlated atoms in optical lattices
- New developments

## PROCEEDINGS

All authors of contributions to SCES'07 are invited to submit a paper to appear in the proceedings and to be published in an international journal. Each paper contributed will be subject to standard refereeing procedures.

## IMPORTANT DATES AND DEADLINES

Second announcement	Oct. 2006
Abstract submission deadline	Jan. 15, 2007
Notification of acceptance of abstracts	Feb. 15, 2007
Early registration deadline	April 1, 2007
Hotel reservation deadline	April 1, 2007
Manuscript Submission deadline	April 1, 2007

## CONFERENCE CONTACTS

Co-Chairmen: Q. Si (Rice) & C. W. Chu (UH)

Administrators:

Umbe Cantu (Rice), umbe@rice.edu

Sue Butler (UH), sbutler@uh.edu

Website: <http://www.sces07.rice.edu>

e-mail: [sces07@rice.edu](mailto:sces07@rice.edu)

## PRELIMINARY REGISTRATION FORM

The International Conference on Strongly Correlated Electron Systems (SCES'07)

- Please keep me informed about SCES'07
- I will probably attend the conference
- I intend to submit a contribution

Name \_\_\_\_\_

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I hereby agree that my personal data may be used in a database created only for the purpose of the SCES'07 conference.

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Signature