# HES70 HORIZONS IN EMERGENCE & SCALING H. EUGENE STANLEY SYMPOSIUM AND GALA

## CELEBRATING 70 YEARS OF DISCOVERY

s. Granular Materials. Pl s and Critical Phenomena. Phy akes, and Viscous Fingering. Alzhe d Microfracture. DNA. Econophysics. Cometric Phase Transitions. Phase Transitions Physics and Chemistry. Water. Aggregation, Snotistical Physics and Neuroscience. Barkhausen Effaterials. Physical and Social Networks. Percolation d Critical Phenomena. Physiology and Medicine. Surfaterials, and Viscous Fingering. Alzheimer's Disease: Effect and Microfracture. DNA. Econophysics. Granular ation: Geometric Phase Transitions. Phase Transitions and C ation: Geometric Phase Transitions. Phase Transitions and C Surface Physics and Chemistry. Water. Aggregation, Snowfla Statistical Physics and Neuroscience. Barkhausen Effect and terials. Physical and Social Networks. Percolation: Geometr cal Phenomena. Physiology and Medicine. Surface Physics and Viscous Fingering. Alzheimer's Disease: Statistical Physics of racture. DNA. Econophysics. Granular Materials. Physical hase Transitions. Phase Transitions and Critical Phenomen Chemistry. Water. Aggregation, Snowtlakes, and Viscou ics and Neuroscience. Barkhausen Effect and Microfra ysical and Social NetWorks. Percolation: Geometric Phomena. Physiology and Medicine. Surface Physics and Ous Fingering. Alzheimer's Disease: Statistical Physics DNA. Econophysics. Granular Materials. Physical and Dus Fingering. Alzheimer's Disease: Statistical Physics
DNA. Econophysics. Granular Materials. Physical and
ns. Phase Transitions and Critical Phenomena. Physi
r.Aggregation, Snowflakes, and Viscous Fingerin
. Barkhausen Effect and Microfracture. DNA.
rks. Percolation: Geometric Phase Transition
edicine. Surface Physics and Chemistry. W
Disease: Statistical Physics and Neurosci
ranular Materials. Physical and Social Ne
and Critical Phenomena. Physiology and
lakes, and Viscous Fingering. Alzheime
Microfracture. DNA. Econophysics. Gra
se Transitions. Phase Transitions and C

*Join us in honoring the* contributions of Prof. H. E. Stanley to diverse areas in statistical physics, neuroscience, econophysics, physiology and networks, at HES70 on the occasion of his 70th birthday.

In a research career spanning nearly five decades, Gene Stanley has made pioneering contributions to a wide range of subjects, from the theory of critical phenomena and phase transitions, the study of biological processes, complex systems, and to the application of statistical physics to studying economic phenomena. The symposium will feature invited speakers who have been associated with key developments in these areas, many of whom are also among the large group of collaborators - students, postdocs and others - that Gene's gregarious style of research has attracted.

We hope you will mark your calendars so that you can be a part of this wonderful event with former and present associates of Gene Stanley, and other colleagues wishing to celebrate Gene's contributions and his 70th birthday.



se Transitions. Phase Transitions and C
ry. Water. Aggregation. Snowflakes, a
cience. Barkhausen Effect and Micro
orks. Percolation: Geometric Phase T
edicine. Surface Physics and Chemistry
isease: Statistical Physics and Neuroscien
Materials. Physical and Social Networks. P
al Phenomena. Physiology and Medicine. Su
Viscous Fingering. A Zhelmer's Disease: Stat
re. DNA. Econophysics. Granular Materials
nsitions. Phase Transitions and Critical Phen
Water. Aggregation, Snowflakes, and Visco
cience. Barkhausen Effect and Microfractur
works. Percolation: Geometric Phase Transi
edicine. Surface Physics and Chemistry.
Disease: Statistical Physics and Neuroscie
lar Materials. Physical and Social Network
Critical Phenomena. Physiology and Med Critical Phenomena. Physiology and Med and Viscous Fingering. Alzheimer's Dise of racture. DNA. Econophysics. Granular se Transtions. Phase I ransitions and Cr se Transtions. Phase Transitions and Cristry. Water. Aggregation, Snowflakes, roscience. Barkhausen Effect and Mic Networks. Percolation: Geometric Py and Medicine. Surface Physics and heimer's Disease: Statistical Physics cs. Granular Materials. Physical ansitions and Critical Phenomena. P, Snowflakes, and Viscous Finge Effect and Microfracture. DNA.: Geometric Phase. I ransitions. Physics and Chemistry. Water. cal Physics and Chemistry. Water. cal Physics and Social Network nomena. Physiology and Me iscous Fingering. Alzheimer cture. DNA. Econophysics. ransitions. Phase Transitio try. Water. Aggregation, Sn try water. Aggregation Sn rO

### MARCH 18-19, 2011

March 18, 2011

Presentations will begin at 1:00 p.m.

March 19, 2011

Presentations will begin at 9:00 a.m.

\*Registration opens at 12:00 noon on March 18th.

#### LOCATION

**Boston University** Metcalf Trustee Center One Sibler Way, Ninth Floor Boston, MA 02215

For registration, poster submission and other details visit: http://hes7o.weebly.com

#### HES70 POSTER RECEPTION

Friday, March 18, 2011 Hors d'oeuvres will be served at 5:30 p.m.

#### HES70 DINNER GALA

Saturday, March 19, 2011 Crudités and Hors d'oeuvres begin at 7:15 p.m. with dinner promptly served at 8:00 p.m.

#### TOPICS OF FOCUS

Econophysics, Water Networks, Percolation Granular Media, Education Physiology & Biology

#### CALL FOR POSTERS

C. Austen Angell, Arizona State University Antonio Coniglio, University of Napoli "Fredico II"

Deadline Monday, February 28, 2011 at 12 Midnight EST

#### **SPEAKERS**

Pablo Debenedetti, Princeton University Mildred Dresselhaus, Massachusetts Institute of Technology Michael E. Fisher, University of Maryland J. Doyne Farmer, Santa Fe Institute Shlomo Havlin, Bar-Ilan University Hans J. Hermann, Swiss Federal Institute of Technology Albert J. Libchaber, The Rockefeller University Joel L. Lebowitz, Rutgers, The State University of New Jersey Johanna M. H. Levelt-Sengers, National Institute of Standards and Technology Luciano Pietronero, University of Rome "La Sapienza"

Alessandro Vespignani, University of Indiana, Bloomington Geoffrey B. West, Santa Fe Institute Benjamin Widom, Cornell University

#### ORGANIZING COMMITTEE

Marcia C. Barbosa, Federal University of Rio Grande Albert-László Barabási, Northeastern University and Harvard Medical School

David K. Campbell, Boston University Giancarlo Franzese, *Universitat de Barcelona* Sharon C. Glotzer, University of Michigan Jiayuan Luo, Boston University Srikanth Sastry, Jawaharlal Nehru Centre for Advanced Scientific Research

Limei Xu, Tohoku University Advanced Institute for Materials Research

#### ADMINISTRATIVE ORGANIZERS

Suzanne S. Aleva, Northeastern University Karen J. Coulter, University of Michigan

Questions? Contact us at hesfest70@gmail.com