

# Announcements

## IRAS

The Institute on Religion in an Age of Science

**Purpose**—IRAS is an independent society of scientists, philosophers, religion scholars, theologians, and others who want to understand the role of religion in our dynamic scientific world.

**Activities**—each year IRAS holds a week-long conference on Star Island, ten miles off the coast of Portsmouth, New Hampshire. Topics are selected to be relevant to current scientific thinking and to fundamental religious questions. (IRAS members pay a reduced rate for conference registration.)

IRAS organizes events at the annual meetings of the American Academy of Religion (AAR) and the American Association for the Advancement of Science (AAAS). IRAS has sponsored more than two hundred fifty meetings at universities, colleges, and theological schools.

**Publications**—*Zygon: Journal of Religion and Science* and *IRAS Newsletter*. IRAS members receive subscriptions to these publications free of additional charge.

**Special Relationships**—Affiliated Society, American Association for the Advancement of Science (AAAS); Member, Council of Societies for the Study of Religion (CSSR).

### Membership Dues

\$60.00 Individual Member

\$65.00 Joint Member (two memberships but one set of publications)

\$40.00 Student Member (requires copy of student ID)

\$110.00 Institutional Member (supports IRAS's work: \$54.00 is tax deductible)

Overseas members are assessed a surcharge to cover mailing costs.

**Invitation to Join**—If you are in accord with the purposes of IRAS and would like to become a member, please submit an application to the IRAS Council, which reviews and votes on applications at biannual meetings in February and July. For an application write to:

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## Institute on Religion in an Age of Science

Fifty-third Annual Star Island Conference

July 29–August 5, 2006

### Emergence: Nature's Mode of Creativity

CONFERENCE CO-CHAIRS: **George Fisher**, Johns Hopkins University  
**Ursula Goodenough**, Washington University

The concept of emergence provides new ways of thinking about cosmic and biological evolution, and challenges some widely held paradigms about the nature of Nature. It also opens up exciting possibilities for reinterpreting many traditional religious views about creation, causality, morality, and the very nature and purpose of human being. IRAS will hold two conferences, in 2006 and 2007, that explore the potential of this concept to revolutionize our worldviews.

Emergent properties arise as a consequence of relationships—for example, the relationships between water molecules that generate a snowflake, or the relationships between proteins that generate motility, or the relationships between neurons that generate a memory. They can be reduced to their component parts (snowflakes → water), but they are “something more” or “something else” than their component parts and hence novel and innovative. Emergent properties also give rise to yet more emergent properties, generating the vast complexity of our present-day cosmic, biological, ecological, and cultural contexts.

At the 2006 conference, scientists will offer rigorous explanations of what emergence entails (e.g. self-organization, autocatalysis) in language accessible to a general audience, and will describe the centrality of emergence to the dynamics and evolution of the cosmos and planet Earth, the origins of life, and the dynamics and evolution of organisms and ecosystems. In 2007 we will explore how emergence is manifest in the evolution of human beings and in shaping our mental, emotional, linguistic, cultural, artistic, and spiritual modalities.

During both conferences, scientists, theologians, philosophers, clergy, and conferees will consider, in plenary sessions and in numerous workshops, how an understanding of emergent modes of creativity offers us ways to feel at home in the universe, on the planet, and in our daily lives, expanding and even transforming our sense of place, gratitude, reverence, obligation, and the sacred.

PLENARY SPEAKERS: **Stuart Kauffman**, Santa Fe Institute and U. Calgary, dynamics of complex systems; **Michael Silberstein**, Elizabethtown College, emergence of the classical world from the quantum; **Michael Wyession**, Washington U., emergence of complex planetary structures from gravity, thermodynamics, and chemistry; **Bruce Weber**, Cal State Fullerton and Bennington College, emergence of life; **Ursula Goodenough**, emergence of embryos and death; **Terrence Deacon**, UC Berkeley, emergence and brain evolution; **Barbara Smuts**, U. Michigan, animal societies and the emergence of social conventions; **Guy Hoelzer**, U. Nevada, structural emergence in evosystems and ecosystems; **Gordon Kaufman**, Harvard U., a religious view of emergence: God as creativity; **Mary Evelyn Tucker**, Forum on Religion and Ecology, and **Brian Swimme**, California Institute on Integral Studies, an emerging planetary civilization. Chapel talks: **George Fisher** and **Gretchen van Utt**, Harundale Presbyterian, emergence in religious thought.

There will be a professionally designed and led program for children and youth ages 3–17. Clergy and seminarians will meet during the conference to shape conference materials for use in their ministry. CEUs upon request.

Information on IRAS is at [www.iras.org](http://www.iras.org); Star Island is described at [www.starisland.org](http://www.starisland.org). Information on conference fees, room and board, and registration is at [www.iras.org/conference.html](http://www.iras.org/conference.html), or contact Bonnie Falla, IRAS registrar, 810 1/2 N. Ninth St., Allentown, PA 18102, (610) 432-8711; e-mail [bfalla@enter.net](mailto:bfalla@enter.net).