

About the Speaker

Johanna M. H. (Anneke) Levelt Sengers was born and raised in the Netherlands. She completed her undergraduate and graduate studies at the University of Amsterdam, Netherlands, obtaining her doctorate in Physics in 1958. In 1963, she and her husband, Jan Sengers, emigrated to the United States. She joined the U.S. National Bureau of Standards, later renamed National Institute of Standards and Technology (NIST). She was a Group Leader from 1979 through 1987, became a NIST Fellow in 1984, and is presently a scientist emeritus at NIST. As a research physicist, Dr. Levelt Sengers worked with collaborators on critical phenomena in fluids and fluid mixtures, from theory to experiment, and developed databases for practical applications. She has held leadership positions and is an Honorary Fellow of the International Association for the Properties of Water and Steam, which serves the electric power industry. She has published extensively in the archival literature, and contributed 14 book chapters.

Dr. Levelt Sengers' honors include: member of the U.S. National Academy of Sciences and U.S. National Academy of Engineering, correspondent of the Royal Netherlands Academy of Sciences and an honorary doctorate from the Technical University Delft, Netherlands. She is a Fellow of the American Physical Society, the American Society of Mechanical Engineers, and the American Association for the Advancement of Science. She was elected the L'Oréal-UNESCO "For Women in Science" 2003 Laureate for North America. In 2004/05, she co-chaired the Advisory Panel "Women for Science" of the InterAcademy Council. In 2010, the Inter-American Network of Academies of Sciences (IANAS) appointed her chair of its new Women-for-Science Working Group, and in 2013 the group published a collection of inspiring stories in their book "Women Scientists in the Americas".

The **I**nstitute for **P**hysical **S**cience
and **T**echnology
and
the **D**epartment of **P**hysics
are pleased to present

"Pride and Prejudice in Science and Engineering"

20th Annual Shih-I Pai Lecture

Johanna M. H. (Anneke) Levelt Sengers

Scientist Emeritus
National Institute of Standards
and Technology

TUESDAY, OCTOBER 7, 2014

**3:00 p.m.
Reception**

James A. Yorke
Rotunda
Mathematics Building

**4:00 p.m.
Lecture**

Physics Lecture Hall
Room 1412
Physics Building

University of Maryland
College Park, Maryland 20742

"Pride and Prejudice in Science and Engineering"

During my career I have worked with scientists, engineers, and postdoctoral collaborators, both men and women, from the US and from many foreign countries. In the past ten years, within the context of the Network of the Academies of Sciences (www.iap.org), I have chaired first a global, then a Western Hemisphere initiative (www.ianas.org) addressing the low representation of women in science and technology. Sociologists have produced solid evidence of gender prejudice even within the physical sciences that take pride in their objectivity. The IANAS book: "Women Scientists in the Americas; their Inspiring Stories" strikingly illustrates culture-dependent gender prejudice that keeps the physical sciences and engineering preponderantly male occupations in countries such as the US, UK, and Germany. The near-absence of women from engineering, as well as ignorance about local culture and gender roles adversely affect development work by foreign engineers serving the poor in the third world. Indeed, both women engineers and social scientists have unique roles to play in overcoming cultural prejudices which waste women's talents and hamper development work.



Presenting Distinguished Speaker

**Johanna M. H.
(Anneke)
Levelt Sengers
Scientist Emeritus**

**National Institute of
Standards and Technology
Gaithersburg, Maryland**



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<http://umdphysics.umd.edu/events/physicscolloquia/860-pride-and-prejudice-in-science-and-engineering.html>

### About the Shih-I Pai Lecture Series

Dr. Shih-I Pai (1913-1996) served on the faculty of the University of Maryland at College Park beginning in 1949, and retired with Emeritus status in 1983. He was the recipient of a Centennial Medal from the A. James Clark School of Engineering and was a founding member of the Institute for Fluid Dynamics and Applied Mathematics (now the Institute for Physical Science and Technology). Dr. Pai authored 14 books and 130 articles in the field of aerodynamics, fluid dynamics and viscous flow, for which he received international recognition. The lecture series honors Professor Pai's many contributions to UMCP, and is supported by contributions to the University of Maryland Foundation.



#### Previous lecturers in this series:

Ellen D. Williams  
Sir Michael Berry  
Andreas Acrivos  
James A. Yorke  
Simon Asher Levin  
Eugenia Kalnay  
Vera C. Rubin  
Nancy J. Kopell  
Susan W. Kieffer  
Albert J. Libchaber  
David Ruelle  
Grigory Barenblatt  
Katepalli Sreenivasan  
Guenter Ahlers  
Harry Swinney  
Leo P. Kadanoff  
Y.T. Li  
Jurgen Zierep  
Y.C. Bertram Fung



## Twentieth Annual Shih-I Pai Lecture

**Tuesday  
October 7, 2014**

**University of Maryland  
College Park**