

QUANTUM LEAPS:

Science, Art and Creative Thinking

a presentation of
The Magic / Alfred P. Sloan Foundation
Science and Technology Initiative

MAGIC
THEATRE

CHRIS SMITH, ARTISTIC DIRECTOR • DAVID GLUCK, MANAGING DIRECTOR

Magic Theatre is pleased to introduce a new addition to our new play programs - The Magic Theatre/Alfred P. Sloan Foundation Science and Technology Initiative. The Sloan Initiative is designed to engage playwrights and theatre artists to create compelling plays exploring the worlds of science and technology.

The Sloan Initiative will:

- Commission new plays, both from proposals and early drafts.
- Host and participate in events, colloquia, forums and symposiums to foster long-term relationships between scientific and artistic institutions.
- Sponsor theatre festivals for the development and dissemination of new works.
- Create the West Coast Partnership, a consortium of theatres committed to play development which will commission new works in their respective communities.

**The first presentation of The Sloan Initiative
as a part of Magic Theatre's 2005-06 Season:**



THE ICE-BREAKER

by **David Rambo**

directed by **Art Manke**

Feb 18 - Mar 19, 2006

Tickets go on sale Nov 29, 2005!

A young climatology PhD student on the verge of a momentous discovery seeks an ally in a disgraced genius. Cold science gives

way to warm emotion, leading them to reveal the passions and demons that drive their quests.

BOX OFFICE: www.magictheatre.org or (415) 441-8822



Chris Smith, Artistic Director • David Gluck, Managing Director

presents

QUANTUM LEAPS:

Science, Art and Creative Thinking

Introductions

Chris Smith

Artistic Director of Magic Theatre

Moderator

Bruce W. Jenett

Co-Leader, Life Sciences Practice, Heller Ehrman LLP

Lead Discussants

William Haseltine

retired Chairman and CEO of Human Genome Sciences, Inc.

Martin L. Perl

Professor at SLAC at Stanford University

Winner of the Nobel Prize in Physics in 1995

Ivan Schuller

Professor of Physics at the University of San Diego

Head of the UCSD Nanoscience Group

Featured Artist

Mara G. Haseltine

Produced in association with

The Magic / Alfred P. Sloan Foundation

Science and Technology Initiative

Wednesday, July 13, 2005

The discussion will be followed by a reception in the lobby.



william haseltine

(Lead Discussant) is the retired Chairman of the Board of Directors and Chief Executive Officer of Human Genome Sciences, Inc., located in Rockville, Maryland. Human Genome Sciences, Inc. is a company with the mission to develop products to predict, prevent, detect, treat and cure disease based on its leadership in the discovery and understanding of human genes.

William A. Haseltine holds a doctorate from Harvard University in Biophysics. Dr. Haseltine was a Professor at Dana-Farber Cancer Institute, Harvard Medical School and Harvard School of Public Health from 1976 to 1993, before joining Human Genome Sciences. He has a distinguished record of achievement in cancer and AIDS research. He has received numerous awards for his scientific work. He is Editor-in-Chief of the Journal of AIDS, founding editor of the Journal of Regenerative Medicine and is on the Editorial Boards of many other scientific journals. Dr. Haseltine has over 250 publications in the scientific literature. He has been awarded more than 50 patents for his discoveries. Dr. Haseltine also has many years of experience with biotechnology companies. Since 1981 he has founded seven companies, each in a different area of medicine. As a scientific advisor to HealthCare Ventures, he helped to establish an additional 20 biotechnology companies. In 1996 Dr. Haseltine was the recipient of the American Academy of Achievement Golden Plate Award and was also chosen by Ernst & Young as the Greater Washington Entrepreneur of the Year.



martin i. perl

(Lead Discussant) **Education:** B.S., 1948, Chemical Engineering, Polytechnic Institute of Brooklyn. Ph.D., 1955, Physics, Columbia University. **Professional Academic History:** Chemical Engineer, General Electric Co., 1948-1950; Graduate Research Assistant in Atomic Physics, Columbia University, 1950-1955; Instructor, Assistant Professor, and Associate Professor in

Physics Department, University of Michigan, 1955-1963; Professor, Stanford Linear Accelerator Center, Stanford, 1963-present; Chair of the High-Energy Physics Faculty, SLAC, Stanford, 1991-1997. **Awards and Honors:** Nobel Prize in Physics, 1995. Wolf Prize in Physics, 1982. Dr. Sc., University of Chicago, 1990. Fellow, American Physical Society. Member, National Academy of Sciences. Member, CERN Scientific Policy Committee, 1990 - 1993. Dr. Sc., Polytechnic University, 1996. **Research Areas:** Experimental elementary particle physics: electron-positron annihilation physics, tau lepton physics, searches for new elementary particles and phenomena, small liquid drop technology and applications, interaction of science with government and society.



ivan schuller

(Lead Discussant) of the Physics Department and the California Institute for Telecommunications and Information Technology (Cal-IT)² at the University of California-San Diego, is a Solid State Physicist. A Fellow of the American Physical Society and a member of the Chilean, Spanish and Belgian Academies of Sciences, he has won many awards such as the American

Physical Society's Wheatley (1999) and Adler (2002) Awards, the German von

Humboldt prize (2003), the Materials Research Society Medal (2004), and the Department of Energy's Lawrence Award (2005). This year he received a Doctor Honoris Causa from the oldest and largest university in Spain-Universidad Complutense. He has published more than 450 technical papers and patents, has given more than 250 invited lectures at international conferences and is one of the 100 most cited physicists world wide (out of 500,000) in the last 15 years. He has given numerous public lectures about science to young and old. On UCSD-TV, Prof. Schuller has interviewed notable scientists such as Nobel Prize Laureates, Profs. Sir Harold Kroto, and Walter Kohn and is currently producing a movie entitled "When things are small...". Based on his earlier theatre studies in Chile, he believes that being a physicist is "as much fun, but way easier than being an actor".



bruce w. jenett

(Moderator) is Co-Leader of the Life Sciences Practice of Heller Ehrman LLP, one of the largest law firms in the United States, and is based in the firm's Menlo Park and San Francisco offices. Mr. Jenett's practice is focused on the representation of domestic and international high technology business clients, primarily in the life sciences industry. He is highly experienced in equity and debt

financing, licensing and distribution, strategic alliances, joint ventures, and mergers and acquisitions, as well as general counseling issues, representing both start-ups and large multinational corporations. Mr. Jenett is a frequent speaker on corporate and finance issues affecting the life sciences industry, and is a member of the Bioethics Committee of BIO (the Biotechnology Industry Organization), of the Advisory Board of the journal Silicon Valley Business Ink, of the BayBio Board of Directors, and of San Francisco Mayor Gavin Newsom's Biotech Advisory Council. Mr. Jenett also is named by Chambers & Partners as one of America's leading business lawyers.



mara g. haseltine

(Featured Artist) received her undergraduate degree in Studio Art and Art History from Oberlin College, Oberlin, Ohio, and her master's degree from The Art Institute of San Francisco, San Francisco, California, with a double degree in New Genres and Sculpture. She has worked as a sculptor throughout the United States, Canada, Europe, Asia and at the National Museum of

Trinidad and Tobago in the Port of Spain, Trinidad. She currently resides in Brooklyn, New York. Ms. Haseltine's love of the natural sciences and form has been a constant theme throughout her work. Her work is figurative in that even her most abstract forms relate to the internal-external body, as well as human psychology. As the artist states, "We are supremely lucky as water-based life forms to be blessed with the consciousness to enjoy the beauty of our planet and have the beginnings of advanced technologies so that we can simultaneously look within ourselves and at the outermost reaches of the cosmos; it is this particular and unique relationship that I explore with my work." Ms. Haseltine works largely on a commission basis. Her current work focuses on molecular and sub-molecular data, creating accurate renderings of electron microscopic and nuclear magnetic resonance images, which she uses as her basic building blocks for her large-scale sculptural installations.



chris smith

(Introductions) is the Artistic Director of Magic Theatre. For the Magic, he has directed the world premieres of Charles Grodin's *The Right Kind of People* and John Belluso's *The Rules of Charity*. Magic Theatre is internationally recognized as a center for the creation, development, and production of new plays. The Magic has produced more than 200 premieres during its 38-year

history. The roster of writers whose works have premiered at the Magic reads like a "Who's Who of the American Theatre," including Sam Shepard (playwright in residence 1975-83), David Mamet, Michael McClure, Nilo Cruz, Rebecca Gilman, Charles Mee, Anne Bogart, Neena Beber, John Robin Baitz, Edna O'Brien, Joseph Chaikin, Claire Chafee, John D'Keefe, Maria Irene Fornes, Michelle Carter and José Rivera. Magic Theatre plays and playwrights have been honored with two Pulitzer Prizes for Drama (Sam Shepard's *Buried Child* in 1979 and Nilo Cruz's *Anna in the Tropics* in 2003), ten Obie Awards (Off-Broadway, NY), as well as PEN-West Awards for Drama, the Kennedy Center Award, numerous Bay Area Critics Circle Awards, the Los Angeles Drama-Logue Award, and the NAACP Image Award.



cell phones

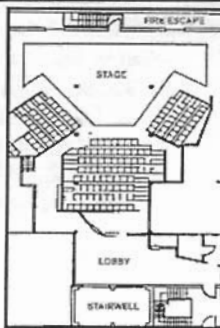
Please remember to turn off or silence all cell phones, beepers, pagers, and alarm watches during the performance.



photography

Photography, video and audio recording during the performance is strictly prohibited.

NORTHSIDE THEATRE EMERGENCY EXITS



Producers:

Magic Theatre: www.magictheatre.org

Alfred P. Sloan Foundation: www.sloan.org

Other Science Partners:

The Exploratorium: www.exploratorium.edu

BioAgenda Summit: www.bioagendaprograms.com

More Information on the Lead Discussants and Moderator:

William Haseltine and Human Genome Sciences Inc. - www.hgsi.com/

Martin L. Perl and SLAC - www.slac.stanford.edu/

Ivan Schuller - physics.ucsd.edu/~iksgpr/

Bruce W. Jenett - www.hellerehrman.com

More information on Mara G. Haseltine's work: www.calamara.com

RE-WRITE COMMISSIONS: *Full-length scripts in development through staged readings at the Magic. The plays will be presented September 2005 as part of the Science on Stage Series in association with Exploratorium.*

'BOT by C. Michèle Kaplan

A 16 year old boy, Charlie, starves himself while creating Charliebot, an AI program designed to gain intelligence and information while self-replicating.

WALK INTO THE SEA by Elaine Romero • directed by Amy Glazer

science advisor: Dr. Luis P. Villarreal, University of California at Irvine
Karl is a molecular biologist who believes that viruses may be responsible for evolutionary leaps. When his wife, Virginia, gives birth to their son with Asperger's Syndrome, Karl dives deeper into his work and Virginia finds fundamentalism.

PROPOSAL COMMISSIONS: *These works will be developed into full-length plays through in-house readings and dramaturgy during the season.*

THE LOS ALAMOS PROJECT by Gary Leon Hill • Director/Dramaturg: David Dower
Science Advisor: David Bohm, Physicist • Collaborators: Frances McCain, Luis Saguar
The Los Alamos Project explores the clash of cultures and toxic fallout from the government's activities at Los Alamos from interviews with blue collar workers at the lab and the writings of participating physicist David Bohm.

JOAN'S BRAIN by David Ford • Director/Dramaturg: Chris Smith

Collaborator: Joan Mankin

Joan is drawn to the wild experimentation of her consciousness-exploring best friend, Connie. Meanwhile, her brain-researching god-father, John discovers a tumor in his own brain, leading to a complete loss of speech. With Joan's help, he studies his own progress towards loss and death.

YELLOWCAKE by Ann Cummins • Director/Dramaturg: Amy Glazer

Science Advisor: Dr. William Willis, Physicist

Ann Cummins will be adapting her novel *Yellowcake* (Houghton Mifflin, 2006) for stage. *Yellowcake* is set in a uranium mill on the Navajo Indian Reservation.

DRAGON, TIGER, PHOENIX by Cherylene Lee • Director/Dramaturg: Barbara Oliver

A highly priced and ancient Chinese delicacy, Dragon, Tiger, Phoenix might have led to the worldwide Severe Acute Respiratory Syndrome outbreak of 2003. The play explores and dramatizes the origin and spread of the SARS virus.

DANDELION by Mia Chung • Director/Dramaturg: Mark Routhier

Science Advisor: Dr. Robert Tjian, University of California, Berkeley

Dandelion tells the story of T.D. Lyenko and how Stalin's Soviet regime rejected genetics for thirty years - sending the country's agricultural economy into a tailspin.

THE GIFT OF THE MAGI by Michelle Carter

In his late forties, a happily married working-class Ohio man transformed himself into a woman through medical science and corrective surgery. *The Gift of the Magi* focuses on the attitudes of religion and science toward transsexuals and their relationship to marriage and the world.

CELESTIAL BODIES by Pam Winfrey

Science Advisor: Dr. Thomas Humphrey, Senior Scientist, Exploratorium

An exploration of the life of Ruby Payne-Scott, a female radio astronomer in the forties. She was a strong-willed woman, who succeeded in a male-dominated field and was forced to turn her back to science after becoming pregnant.

MAGIC THEATRE 2005-06 SEASON

9/24 -
10/23

Family Butchers

an American premiere play by Edna O'Brien
directed by Paul Whitworth

11/12 -
12/11

The Hopper Collection

a world premiere play by Mat Smart
directed by Chris Smith

1/21 -
2/19

The Long Christmas Ride Home

a West-Coast premiere play by Paula Vogel
directed by Basil Twist

2/18 -
3/19

The Ice-Breaker

a world premiere play by David Rambo
directed by Art Manke

4/15 -
5/11

3 playwrights America needs to know
3 full-out world premieres in rotating repertory

HOTHOUSE'06

Morbidity and Mortality

by Courtney Baron
directed by Loretta Greco

The Golden Rooms of Nero

by Steven Sater music by Duncan Sheik
directed by Beth Milles

Rust

by Kirsten Greenidge
directed by Raelle Myrick-Hodges

SUBSCRIBE
TODAY!

(415)
441-8822

www.
magictheatre.
org



BRAVE NEW WORLDS