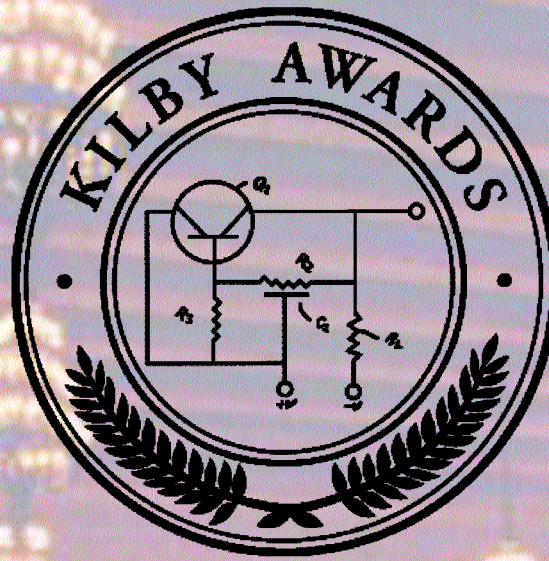


# The Kilby International Awards and Symposium Tenth Anniversary Celebration 1990-2000



Embracing the Spirit of Creativity for the Benefit of Humanity



*Laureates (l to r):* France Cordova, Mario Geysen, Martin Schwab, Bran Ferren, Matthew Pittinsky, Michael Chasen, Margaret Lowman (Not pictured: Ada Yonath and Linus Torvalds)

*Seated (l to r):* David Biegler, Honorary Chairman, Tenth Anniversary;  
Jack St. Clair Kilby, in whose honor the Founders named the Awards Program;  
Victoria Smith Downing, Founding Chairman, Kilby Board of Trustees;  
Johann Deisenhofer, Chairman, Awards Jury and Nobel Laureate

**Member: International Congress of Distinguished Awards**

[www.kilby.org](http://www.kilby.org)

# The Kilby Awards Foundation

## VISION

### Embracing the Spirit of Creativity for the Benefit of Humanity



Victoria Smith Downing, Chairman, Board of Trustees, Kilby Awards Foundation and Jack St. Clair Kilby, for whom the Founders named the Awards Program.

#### ~ MISSION ~

To honor extraordinary individuals who have made significant contributions to society through science, technology, innovation, invention and education.

The Foundation collaborates with organizations worldwide to achieve its mission to share these noble Kilby Laureates throughout society, both as role models for future generations of leaders and as resources to world leaders on issues that are of importance to humanity.

#### ~ IMPACT ~

An opportunity to impact the quality of leadership in the 21st Century through the creation of programs which introduce the Kilby International Laureates as role models for young people.

#### A Tribute to Jack St. Clair Kilby

In 1990, the Founders named these awards in honor of Jack St. Clair Kilby, who, at the age of 33 as a new employee at Texas Instruments created the first monolithic integrated circuit, now known as the "Chip that Changed the World." Although it was many years before Kilby received public acclaim, he ultimately won several awards, including the National Medals of Science and Technology, the Kyoto Prize (Japan) and was inducted into the National Inventor's Hall of Fame. His pioneering work is important in that it reflects the importance of supporting innovation and creativity in young people, and that it symbolizes the enormous benefits which can be created by one person's inventive mind. Kilby was named Nobel Laureate in Physics, December 10, 2000.



David Bieglar, Honorary Chairman, Tenth Anniversary Celebration and President & COO, TXU



STATE OF TEXAS  
OFFICE OF THE GOVERNOR

GEORGE W. BUSH  
GOVERNOR

October 30, 2000

*Greetings:*

*Congratulations to the Kilby Awards Foundation 2000 honorees. This November 4 ceremony provides a fitting opportunity to recognize your achievements, celebrate the 10<sup>th</sup> anniversary of the Awards and pay tribute to Jack S. Kilby, the Foundation's namesake and winner of the 2000 Nobel Prize in Physics.*

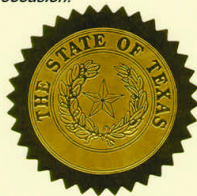
*Modern scientific advancements in health and technology have contributed enormously to the quality of life of millions of people around the world. I commend the new Laureates honored today for your outstanding work as innovators, scholars and inventors. Your accomplishments serve as an example to others.*

*I also applaud Jack S. Kilby on recently winning the Nobel Prize. Your pioneering leadership in microelectronics and engineering has opened new worlds for technological discovery and has forever influenced the development of our society.*

*Laura joins me in sending best wishes on this memorable occasion.*

Sincerely,

GEORGE W. BUSH



You are cordially invited to participate in a Champagne Reception in the Spring of 2001 to celebrate Jack Kilby being named Nobel Laureate in Physics.

Please contact the foundation office for more information — phone 214-768-3355 or e-mail: kilby@kilby.org.

**Dear Friends ,**

This heartfelt message is for every one of the hundreds of you who have helped the Kilby Awards become what it is today. As we joined together to salute Jack St. Clair Kilby some eleven years ago ... we have now come together once again in pure delight as our dear friend and namesake of the Kilby Awards was named Nobel Laureate in Physics, December 10, 2000. In early 2001, the Foundation invites you to a reception honoring Mr. Kilby. My deepest thanks to each of you for all the many ways in which you made this dream a reality.

Nine extraordinary Laureates were honored during the Tenth Anniversary of the Kilby International Awards. We look forward to sharing them in the years to come. We were

delighted to receive many of our distinguished Laureates from past years joining us to toast Mr. Kilby and the new Laureates. There are now 50 Kilby Laureates throughout the world, making it a better place for all of us.

You will find a brief announcement concerning important new partnerships and alliances which strengthen the possibilities for the Kilby Awards Foundation in the future. The Year 2000-2001 is most surely a magnificent turning point.

Join us for the new Century as a member of the Kilby Legacy... Celebrating Creativity for the Benefit of Humanity!

**Victoria Smith Downing**  
Founding Chairman, Board of Trustees

## Presenting the Year 2000 Kilby Laureates and Young Innovators

The Year 2000 Kilby International Laureates cited for extraordinary contributions to society through science, technology, innovation, invention and education and The Kilby Young Innovators, individuals under 40 whose accomplishments and potential indicate exceptional promise — persons for whom early recognition might mean significant and timely freedom and support for their maturing talents, enabling them to make even greater contributions in the future.



**Martin Schwab, Ph.D.**

Swiss Neuroscientist at the University of Zurich ETH, Martin Schwab's groundbreaking research led to the identification of growth-inhibiting substances in the central nervous system. His work continues with the development of antibodies that neutralize these substances, thereby allowing new growth and regeneration — a stunning medical breakthrough in spinal cord injury research.



**Ada Yonath, Ph.D.**

Israeli Structural Biologist at the Max Planck Institute (Germany) and Weizmann Institute (Israel) who patiently laid the foundation for a recent spectacular breakthrough in the crystallography of very large biological assemblies. Her elegant research has led to three-dimensional models, at atomic detail, of ribosomes, the molecular machines that use information in the genetic code to synthesize proteins in the biosphere.



**Bran Ferren**

Visionary and futurist whose limitless imagination is partnered with keen scientific and technical skills. As the former President of Walt Disney Imagineering R&D and Creative Technology, and current co-founder of Applied Minds, Inc., Mr. Ferren is uniquely positioned at the epicenter of design, technology, and creative conceptual strategies to provide new solutions to some of society's most intractable challenges.



**France Anne Córdova, Ph.D.**

Physicist and former NASA Chief Scientist, France Anne Córdova led a scientific team whose digital electronics module was a vital component of a recent European Space Agency mission. She is establishing new paradigms in cross-discipline research programs (RAD) as Vice Chancellor of the University of California at Santa Barbara.



**Hendrik Mario Geysen, Ph.D.**

Australian Chemist and Distinguished Scientist at Glaxo Wellcome Research Institute, Mario Geysen is the father of Combinatorial Chemistry, a new science that allows multiple drug candidates to be screened simultaneously. This extraordinary new process dramatically accelerates the pace of pharmaceutical analysis, development and delivery ultimately providing medicines to patients throughout the world.



**Margaret Lowman, Ph.D.**

American Botanist, Margaret Lowman, pioneered novel techniques for accessing the rain forest canopy. Her persistence and courage while conducting research in the challenging and sometimes dangerous conditions of the rain forest led to a new appreciation of this vital and fragile resource. Margaret Lowman serves as Executive Director of the Marie Selby Botanical Gardens and is a tireless and effective advocate for rain forest conservation.



**Matthew Pittinsky, Young Innovator**

Co-founder and Co-CEO of Blackboard, Inc., Pittinsky is the 28 year old graduate of American University and Harvard Graduate School of Education. Formed with Michael Chasen, Blackboard is one of the leading providers of e-Learning infrastructure for the world of academia.



**Linus Benedict Torvalds, Young Innovator**

Linus Torvalds is a Computer Scientist who in 1991 became a hero to Internet users worldwide by writing the Linux kernel while a graduate student at the University of Helsinki, Finland. His immensely popular Unix-based "open-source" operating system is available without charge on the Internet allowing users to make improvements and grow the system.



**Michael Chasen, Young Innovator**

Co-founder and Co-CEO of Blackboard, Inc., Chasen is the 28 year old graduate of American University and Georgetown University School of Business. Formed with Matthew Pittinsky, Blackboard is one of the leading providers of e-Learning infrastructure for the world of academia.

## A Decade of Discovery and Celebration of Fifty Kilby International Laureates

Susan Athey, Robert Ballard, Tim Berners-Lee, Vinton Cerf, Michael Chasen, Leonardo Chiariglione, James Clark, Jewel Plummer Cobb, Francis Collins, France Cordova, Hector DeLuca, Eric Drexler, Sylvia Earle, Bran Ferren, Helen Murray Frece, Drew Gaffney, Mario Geysen, John Hagelin, Marc Hannah, Jennifer Harris, Florence Haseltine, Michael Hawley, Hans Herren, Mac Jemison, Karl Johnson, Dean Kamen, Daniel Kaufman, Wendy Kopp, Stephanie Kwolek, Zafra Lerman, Margaret Lowman, Barry Marshall, Mike McCue, Harry Orr, Francine Patterson, Candace Pert, Matthew Pittinsky, Mark Reed, Martin Schwab, Richard Smalley, George Smoot, William Strickland, Clayton Teague, Kay Toliver, Linus Torvalds, Steve Wozniak, Masashi Yanagisawa, Ada Yonath, Michael Zasloff, Huda Zoghbi

### The Countries of the Laureates and Kilby International Council

Japan, Australia, Switzerland, Israel, Italy, Great Britain, Lebanon, The United States of America, Kenya, Finland



Gerald Turner, SMU President and Victoria Smith Downing, Founding Chairman, Kilby Board of Trustees



Dr. Ada Yonath, Laureate, Israel



Question from a student

"The Kilby Laureates inspired me to catch my dreams and make them a reality."  
—Kavon Kaboli, student St. John's School of Dallas



Question from an audience member



Bağpiper Huğh Lacey leads the Symposium Processional.



Students with Kilby Symposium T-shirts



Dr. Mario Geysen, Laureate, Australia & U.S.



# The Kilby International Symposium

## Role Models for Future Generations of Leaders



On Friday, November 3, 2000, an audience of 300 students, teachers and special guests gathered in Perkins Chapel on the campus of Southern Methodist University for an exceptional day filled with heroes and heroines from the worlds of science, technology, innovation, invention and education. SMU co-hosted the Symposium.

The Foundation expresses its appreciation to the teachers and principals of the newly formed Kilby Education Network. The schools represented at the Symposium include: DC Cannon Elementary — Quinlan ISD, Episcopal School of Dallas, Garland High School, Greenville ISD, The Highland School, Highland Park High School, Hockaday School of Dallas, Kimberlin Academy, JJ Pearce High School, Jesuit College Preparatory School, Richardson High School, St. John's Episcopal School, Talented and Gifted Magnet High School at Terrellview, Terrell ISD, Ursuline Academy, Woodrow Wilson High School, W.T. White High School

## The Kilby Young Innovators 1990-2000 An Award for promise



1990 Michael Hawley Massachusetts



1991 Wendy Kopp New York



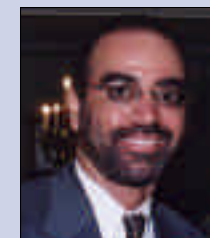
1992 John Hagelin Iowa



1993 K. Eric Drexler California



1994 Marc Reed Connecticut



1995 Marc Hannah California



1995 Tim Berners-Lee England and Massachusetts



1996 Mike McCue California



1997 Susan Athey Massachusetts



1998 Jennifer Harris California



2000 Matthew Pittinsky Washington, D.C.



2000 Michael Chasen Washington, D.C.



2000 Linus Torvalds Finland and California



Dr. Martin Schwab, Laureate, Switzerland



Dr. Johann Deisenhofer, Awards Jury Chairman, Nobel Laureate, UT Southwestern Medical Center

"My students were most privileged to attend the Kilby Symposium to hear the laureates present and share their extraordinary life works. Cutting-edge achievements of these laureates to make a positive difference for humankind exemplify what individuals can do with willpower, persistence and passion. What bright candles to light the way for our world's youth."  
—Judith Schroeder, teacher Terrell High School



Students from Ursuline Academy



Dr. France Cordova, Laureate, California, signing autographs.



Michael Chasen, Young Innovator, signing autographs



Bran Ferren, Laureate, New York and California.



Jack Kilby and Meş Lowman, Laureate, signing autographs.

# International Guests Toast and Celebrate



David Beißler, Tenth Anniversary Honorary Chairman, International Council, President & COO, TXU. (Patron)



Johann Deisenhofer, Awards Jury Chairman, Nobel Laureate, Howard Hughes Medical Institute, UT Southwestern Medical Center.



Patron Guests — L to R: Beth and Richard Rodzinski, Director of Van Cliburn Foundation and International Piano Competition; Mr. and Mrs. Stanley Marcus, International Council Member (Patron); Hans Herren, 1995 Laureate; Lucille Smith; Michael Downing, CEO, Musicbank; Mary Carrington, International Council Member; Theodore Parçe, Vice President and Stephanie Pace Marshall, President, Illinois Mathematics and Science Academy; and Lee Martin, Master of Ceremonies.



The Year 2000 Laureates and Past Laureates — Front Row: Ada Yonath, Bran Ferren, Martin Schwab, Mario Geysen, Matthew Pittinsky, Victoria Downing, Chairman, Jack Kilby, Johann Deisenhofer, Jury Chairman, Michael Chasen, France Cordova, Margaret Lowman. Back Row: Lee Martin, Master of Ceremonies, Truman Cook, Dallas Community Awardee, Daniel Kaufman, Florence Haseltine, Helen Murray Free, Marc Hannah, Sylvia Earle, Jennifer Harris-Trosper and Hans Herren.



Dr. Florence Haseltine, Laureate, Washington, and Norman Gant, President, American Board of OB/GYN



Dr. Hans Herren 1995 Laureate, Kenya, Africa



Jonathan Schlesinger President, Connexus, and International Council Member



Nan Downing Artist, Dallas



Alba Marquez de la Plata and Betsy Guthrie, Kilby Staff with Victoria Downing, Chairman.

## The Year 2000 Kilby Anniversary Patrons and Underwriters

The celebration of the year 2000 Kilby International Awards & Symposium of Laureates was made possible through the generosity of our Patrons & Underwriters.

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- Nubuo Fujiwara • Kevin McGarity & Friends • Peter O'Donnell • Charles Phipps

# Jack Kilby, the Laureates and the Foundation Mission



Recessional of the Awards Ceremony at the Hall of State.



Nubuo Fujiwara, International Council, Chairman, Japan Israel Chamber of Commerce, Japan, (Patron) toasting Jack Kilby and Laureates.



Stanley Marcus, International Council, Chairman Emeritus, Neiman Marcus.



Chris Simpson, International Council, Rtd., PriceWaterhouse, London



Dr. Helen Murray Free  
1996 Laureate,  
Inventors Hall of  
Fame, Indiana



Jack Kilby, his daughter, Janet Cameron, and grandchildren at the Gala Reception.



Jerry Selinger  
Kilby Trustee, Jenkins &  
Gilchrist



France Cordova, Vice Chancellor, UCSB, Laureate and David Laney, Jenkins & Gilchrist.



The Honorary Chairman's Table: Sylvia Earle, Laureate, Alexia Moore and Hazlitt Kroç, CEO, Zada; Robyn Low and Bran Ferren, Laureate; Diane Knappe and David Bieçler, President and COO of TXU; Avelino and Judith Seçura, President, Belo Foundation; Mr. and Mrs. Nubuo Fujiwara, Chairman, Japan Israel Chamber of Commerce and International Council Member and VP, Mitsui, Rtd., Tokyo.

## The Foundation Welcomes New Partnerships and Alliances for the Future

National Endowment for Science, Technology and the Arts (England) • Rogers Scholars — The Center for Rural Development (Appalachia) • Southern Methodist University (Dallas) • U.S. First (California) • Teachers Without Borders (Seattle) • Illinois Math and Science Academy • Seeds of Peace (New York) • Thomas Alva Edison Foundation (New Jersey) • Region 10 Education Service Center (Texas)

# Thank You to Patrons, Trustees, Laureates and Friends of the Kilby Tribute



Le Martin, Trustee, and Lucy Billingsley, CEO, Billingsley Companies, Trustee and Co-Hostess, Sunday Farewell Brunch.



Daniel Kaufman, 1996 Kilby Laureate, California.



Bagpiper, Hubert Lacey



Jack Kilby receiving the first gold Kilby Lapel Pin to mark ten years of Kilby International Awards.



Margie Tingley, CEO Tingley Systems, Florida (Patron)



Sha Cavendar, Writer, Nantucket



Rolf Haberecht, CEO, VLSIP and Kilby Trustee (Patron)



Ute Haberecht



Nubuo Fujiwara, International Council Member, and Greg Brettencourt, Shinko Electric (Patron).



Cornelius Love, Baltimore, Md., Wedgewood Productions, and Peter Riddleberger, International Council Member, Washington, D.C.



Henry Billingsley, Co-Host, Sunday Farewell Brunch.

## Special Thanks to Volunteers, Pro-Bono Donors, Friends and Supporters

- |                                      |  |
|--------------------------------------|--|
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| Louise Henderson                     | Bill Reeser - AVW                            |
| Brett Krafft - Wyndham Anatole Hotel | Gail Robson - Writer                         |
| Hubert Lacey                         | Jonathan Schlesinger - Connexus, Inc.        |
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- Peggy Czyzak-Dannenbaum, Chairman, VEOS, London
- Nancy Fischer, National Council for Science and the Environment, Washington, D.C.
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• Kilby Laureates are Honorary Members of the International Council •



Mary Carrington, International Council Member



Howard Cash, International Council Member



Marc Hannah Kilby Young Innovator 1995 and International Council Member



Nancy Fischer and Chris Simpson, International Council Members



Jennifer Harris-Trosper, Kilby Young Innovator 1998 and International Council Member