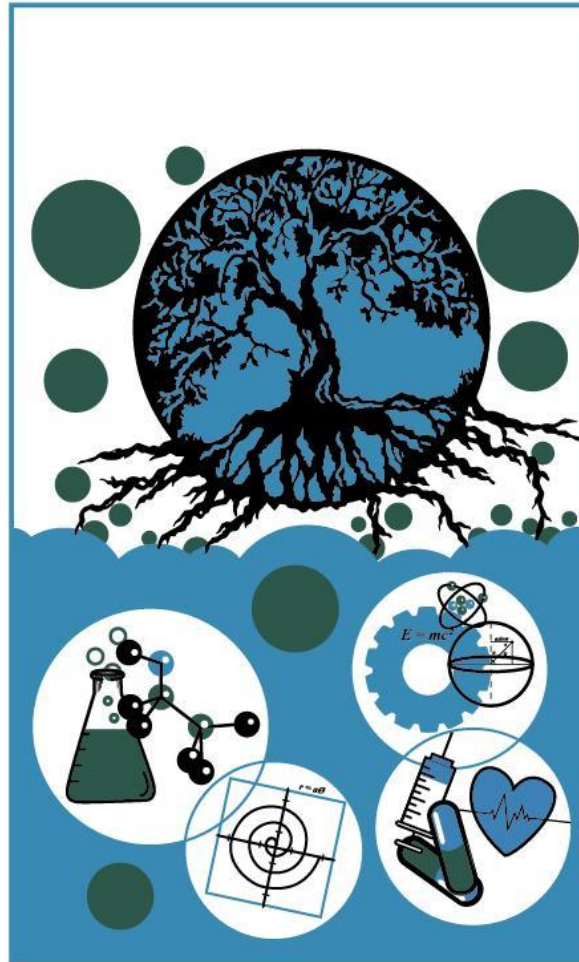


THE 51st SCIENCE ENGINEERING FAIR OF HOUSTON



Sponsored by
University of Houston – Downtown
Greater Houston Partnership
Consumer Energy Alliance
Houston Museum of Natural Science
Engineering, Science and Technology Council of Houston
March 11 – 13, 2010

PROGRAM

Welcome	Larry Spears, Ph.D. Executive Director
Guest Speaker	William V. Flores, Ph.D. President University of Houston - Downtown
Presentation of Poster Design Awards	Larry Spears Aimee Roundtree, Ph.D., Chair Writing Contest Committee
Presentation of Science Writing Awards	
Presentation of Special Awards	Melinda Mills, Chair Scientific Review Committee Mary Jo Parker, Ed.D., Chair Special Awards Committee Susan Caffery, Ed.D., Chair Information Committee Tisha Sinnette, Chair Registration Committee Peggy Levy, Co-Chair Judging Committee Jay Levy, Co-Chair Judging Committee
Presentation of SEFH Place Awards	Jay Levy Brad Hoge, Ph.D., President Larry Spears
Presentation of the Jesse A. Dorrington/SEFH Teacher of the Year Awards	Brad Hoge
Presentation of the University of Houston- Downtown Awards for Excellence	Larry Spears
Presentation of the ECH Awards for Excellence	Victoria Rockwell, President The Engineering, Science, & Technology Council of Houston
Presentation of SEFH Grand Awards	Larry Spears Brad Hoge

NOTE: All place award and special award winners should be available on the SEFH website by Friday, March 26. Marc Nathan Photographers (281-313-8934) is in charge of the photography for this ceremony. They will furnish each student and Special Awarding Agency with a business card to order copies of desired prints. Orders can be placed at www.partypics.com (password "science10") starting Monday, March 22. Please do not interfere with his activities since the Award Ceremony must proceed in a timely manner.

IMPORTANT UPCOMING DATES FOR 2010

March 23, Copy of State ISEF abstract received at the SEFH office by this date.

March 25, On-line registration deadline for the State Fair. You must use the PIN NUMBER that we give you tonight to register. Website address is <http://emtsef.org>.

March 19-12, 24th Texas State Science Engineering Fair, San Antonio, Texas

May 9-15, 61th International Science & Engineering Fair, San Jose, CA

Cover Art by Li Boynton, First Place Contest Winner, Bellaire High School, Houston ISD.

2009-2010 FINANCIAL CONTRIBUTORS
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SCIENCE AND ENGINEERING FAIR OF
HOUSTON
CATEGORY SPONSORS

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Consumer Energy Alliance	Chemistry
Devon Energy Corporation	Junior Division Teams (2)
El Paso Corporation	Ninth Grade Teams (2)
ExxonMobil	Engineering
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Cosmos Foundation	Krishen Foundation for Arts & Sciences
Greater Houston Dental Society	Society of Exploration Geophysicists

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Fred & Ruth Stoerkel	Rice Engineering Alumni, Rice University
Geroge R. Brown School of Eng., Rice University	Society for American Military Engineers
Houston Astronautical Society	

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Rules/Safety

Robert Gussman, Baker Hughes Drilling Fluids

Scientific Review

Melinda Mills, Clear Creek ISD

Security

Terri Berry, Clear Creek ISD

Special Awards

Mary Jo Parker, Ed.D., University of Houston -Downtown

Writing Contest

Aimee Roundtree, Ph.D., University of Houston -Downtown

ADMINISTRATION

Executive Director: Larry Spears, Ph.D., University of Houston -Downtown

Office Manager: Heather Davis, University of Houston -Downtown

Website Coordinator: Mallika Reuben, University of Houston -Downtown

Science Engineering Fair of Houston; c/o University of Houston -Downtown

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PROJECTS ELIGIBLE TO ENTER THE 2010 STATE SCI. & ENG. FAIR, April 9-12, in San Antonio, TX.

JUNIOR DIVISION: First, second & third place winners for each of the thirteen individual project categories plus up to 12 honorable mentions, with no more than one in each category.

First place winners in each of the four team categories plus second place winners in the two life categories **for even years** and second place winners in the two engineering and physical science team categories **for odd years**.

NINTH GRADE DIVISION: First place winners in each of the 13 individual project categories.

First and second place winners in the two team categories.

SENIOR DIVISION: First and second place winners in the 13 individual project categories and third place winners in all individual project categories except for Computers and Mathematics. **In even years** the third place winner in Computers will be eligible and **in odd years** the third place winner in Mathematics will be eligible. First and second place winners in the single team category.

Registration for the state fair is to be done on-line at <http://emtsef.org>. You will need a PIN number to register; it is taped to the bottom of your place award trophy. Teams eligible for the state SEF, will also have the name of their team captain (chosen by SEFH) indicated on the card attached to the base of your trophy. **A copy of your ISEF Abstract form must be sent and received at the SEFH office by March 23;** FAX no. is 713-221-8528. If the SEFH office does not receive this copy, you will **not** be certified for entry into the state fair. Bring your original Abstract to the state fair. Your SEFH project forms are copies of the ISEF project forms mentioned on the state fair registration website. Bring your original project forms and the one that was stamped by the SRC @ SEFH on Thursday night with you to the state fair. On-line registration deadline for SEFH entrants to the state fair is **March 25**.

SPECIAL AWARDING AGENCIES

Alumni Club of MIT
American Chemical Society - Greater Houston Section
American Industrial Hygiene Association – Gulf Coast Section
American Institute of Chemical Engineers - South Texas Section
American Meteorological Society
American Society for Materials International – Houston Chapter
American Society for Quality - Greater Houston Section
American Society of Indian Engineers
American Society of Mechanical Engineers - South Texas Section
American Society of Safety Engineers
American Statistical Association - Houston Area Chapter
Am. Water Works Assoc. - Texas Section/Water Env Assoc. of Tx
Engineering Science and Technology Council of Houston
Entomological Society – Southwestern Branch
Geophysical Society of Houston
Greater Houston Dental Society
Greater Houston Pest Control Association
Gulf Coast Environmental Affairs Group
Gulf Coast Safety and Training Group
Houston Academy of Medicine and Harris County Medical Society
Health Physics Society
Houston Area Dietetic Association
Houston Astronomical Society
Houston Geological Society
Houston Intellectual Property Law Association
Houston Museum of Natural Science
Intel
International Sustainable World Project Olympiad
Jacobs Technology

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Krishen Foundation for Arts & Sciences
Marine Technology Society – Houston Section
Mothers for Clean Air
Rice University - Engineering Alumni
Rice University - George R. Brown School of Engineering
Schlumberger Sugarland Technology Center
Society of American Military Engineers
Society of Hispanic Professional Engineers (SHPE)
Society of Petroleum Engineers - Gulf Coast Section
Society of Plastics Engineers - South Texas Section
Society of Women Engineers - Houston Area Section
Society for Technical Communication - Houston Chapter
Swaralayam Arts Forum
Texas A&M University at Galveston
Texas Association of Environmental Professionals
Texas Center for Superconductivity and the Center for Materials Chemistry
Texas Chiropractic College
Texas Society of Professional Engineers - Greater Houston Chp.
Texas Tech University - Plant & Soil Science Department
United Space Alliance
University of Houston, Clear Lake
University of Houston, Downtown
University of Houston, Downtown Professional Writing and Communication Program
University of Texas Health Science Center Graduate School of Biomedical Sciences
Weather Research Center – John C. Freeman Weather Museum

SPECIAL ACKNOWLEDGEMENTS

SEFH would like to acknowledge the **Bellaire High School**, Houston I.S.D., National Honor Society students who assisted with the registration activities on Thursday and also members of the **American Society of Safety Engineers** who served as members of the Rules and Safety Committee on Thursday and Friday. We also acknowledge the **UHD Department of Natural Sciences** office staff and students from the **UHD Scholars Academy** who assisted with on-site preparation and setup, data entry and the awards ceremony. Special acknowledgement also goes to the **Houston Museum of Natural Science** for providing free passes to all participants. We also want to acknowledge the many years of excellent service and support that we have received from **Freeman Decorating** and to **KBR (Kellogg Brown & Root)** for providing and staffing the Exhibitor Assistance Center.

SEFH students did exceptionally well at the 2009 INTEL Science & Engineering Fair in Reno, Nevada. Lyric Gillett from Cornerstone High School in Houston received third place in Physics and a first place award from the National Collegiate Inventors and Innovators Alliance. Jeffrey Chan from Clements H.S. in Sugar Land received first place awards from the American Mathematical Society and also from the American Statistical Association. Rebecca Abrams and Fatma Tanis from Harmony Science Academy in Houston, received a third place award in the Team Project category. Most impressive was the recognition received by Li Boynton of Bellaire H.S. in Bellaire. Li received one of the three top awards at ISEF, the Intel Foundation Young Scientist Award which includes a \$50,000 scholarship. In addition to this, she received the Best in Category award for Environmental Science; a first place from the U.S. Air Force and a second place award from the U.S. Army.

PROJECTS ELIGIBLE TO ENTER THE NATIONAL DISCOVERY YOUNG SCIENTIST CHALLENGE

Junior Division only: First, Second & Third Place Individual Project Category Winners (39)
First Place Winners in each Team Category (4 teams)

This competition is no longer associated with ISEF. Online registration deadline is **May 25, 2010**. Register at www.discoveryeducation.com/youngscientist.