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Welcome to the 2000 Intel International Science and Engineering Fair. This week 1,200 young scientists and more than 2,500 educators and fair directors gather together from more than 40 countries around the world to compete and to celebrate the scientific breakthroughs of a new generation. I am sure it will be an exciting and memorable experience for all attendees.

Our sponsorship of the Intel ISEF is part of our Intel Innovation in Education initiative to encourage academic excellence in science, math and engineering. Through the Intel ISEF we want to encourage YOU - the world's future scientists and engineers to entertain new ideas, to create new technologies and to bring a fresh perspective to the challenges facing our world.

Congratulations to all the students who have worked so hard to earn the opportunity to compete here this week and a heartfelt thanks to their teachers, parents and fair directors for their commitment and support.

Best of luck to you all!  
Regards,

A handwritten signature in black ink that reads "CR Barrett". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Craig R. Barrett  
President and Chief Executive Officer  
Intel Corporation

## SCIENCE SERVICE

Office of the President

*Science News*

Intel Science Talent Search

Intel International Science and Engineering Fair

Discovery Young Scientist Challenge

Welcome to the Intel International Science and Engineering Fair, the week when 1,200 high school students from forty-five countries gather to compete for prizes and scholarships. Adults will bring home a few treasures of their own in the form of ideas, contacts, and friendships.

Detroit's prominence in engineering and education make this the perfect site for the fair. Some of our special events will take place at Greenfield Village, which features re-creations of agrarian life placed side-by-side with reconstructions of famous inventors' laboratories. This open-air museum illustrates how the pace of change has been increasing at an astonishing rate.

Detroit is also a place of impressive cultural diversity. Once a mecca for Southerners seeking employment in factories, it now hosts the largest Arab-American community in the United States along with a multitude of other ethnic populations. Motown Records, Detroit's most famous contribution to popular culture, grew out of its vibrant African-American heritage.

Creativity and ingenuity are valuable commodities in Detroit. Here, the business community knows that the quality of its future workforce depends on the education it receives today. We are grateful to the city's corporate leaders for their financial and managerial support, and to its institutions of higher learning for providing the judges. Most of all, we are indebted to the Host Committee for managing the logistics of this huge event.

Intel Corporation and Foundation have been our partners in education for the past four years. They, too, feel it is important to invest in tomorrow's scientists. Just as Detroit's automobile industry left an indelible mark on American society, Intel's pioneering efforts in the computer industry are transforming the world. Developments in transportation over the past 150 years have done away with the distance between cities. Now, the rise of electronic commerce is toppling the barriers between countries and uniting them into one global community.

We are perched on the cusp of a new millennium, where yesterday's inventions are laying the groundwork for unlimited opportunities. Whatever their chosen paths, you can be sure that our Finalists will find many roads to success leading out of Detroit. We wish them well.

Sincerely,

Donald R. Harless  
President





# General Information

## Intel ISEF Offices

Host Committee Office	Cobo Room	O2-36
Science Service Office	Cobo Room	O2-37
Public Relations/Media Information	Cobo Room	O3-45

## General Information

Intel ISEF Participants must wear their name badges to participate in fair activities and events. Admission to certain areas of the Cobo Conference and Exhibition Center (Cobo) is restricted to persons wearing the Intel ISEF name badge.

Cobo Center is a smoke-free environment.

Food and beverages are prohibited in the Cobo Exhibit Halls.

Balloons and large flags are prohibited during the Awards Ceremonies. Please do not bring flags or state symbols on stage during the presentation of awards.

Finalists' medals and certificates may be picked up in the Oakland Atrium.

<b>Hotel Directory</b>	<b>Phone</b>	<b>Fax</b>
Atheneum	313-962-2323	313-962-2424
Best Western	313-887-7000	313-965-4307
Courtyard by Marriott	313-222-7700	313-222-6509
Marriott-Renaissance	313-568-8000	313-568-8146
Hotel Ponchartrain	313-965-0200	313-965-9464
River Place-Omni	313-259-9500	313-259-3744

## Emergency Hot Line

**800-2000-ISF or 248-471-9900**

**fax: 248-471-9901**

## Schedule of Events

### Saturday, May 6, 2000

12:00 p.m. - 4:00 p.m.

5:00 p.m. - 6:00 p.m.

**Tour Desk Open**

**Advisory Council Meeting**

*Room W2-63*

### Sunday, May 7, 2000

9:00 a.m. - 6:00 p.m.

10:00 a.m. - 10:00 p.m.

10:00 a.m. - 10:00 p.m.

10:00 a.m. - 10:00 p.m.

**Science Service Office**

*Room O2-37*

**Host Committee Office**

*Room O2-35*

**International Office**

*Room O2-38*

**Official Party Registration**

*Oakland Atrium*

Note: After 3:00 p.m. on Sunday, Finalists transporting their own projects may unload them only after they have registered. *EACH ITEM MUST BE CLEARLY MARKED WITH FINALIST'S NAME, ADDRESS AND FAIR ID NUMBER.* Only Fair Officials are permitted on the Exhibition Hall floor before 6:00 p.m. on Sunday.

10:00 a.m. - 7:00 p.m.

10:00 a.m. - 10:00 p.m.

10:00 a.m. - 10:00 p.m.

2:00 p.m. - 10:00 p.m.

6:00 p.m. - 10:00 p.m.

**Cyber Lounge**

*Room O2-33*

**Student Resource Center**

*Room O2-44*

**Tour Desk**

*Oakland Atrium*

**SRC Interview**

*Room D0-1A*

**Early Setup of Projects & Photography**

Note: The Scientific Review Committee (SRC) must have completed its review and cleared a project *BEFORE* it can be set up. It is possible that the SRC may not have completed all reviews by the time early setup begins. If the review of a project is incomplete, the finalist cannot participate in early setup. There is no significance in the fact that a project has not been reviewed by the beginning of early setup.

8:00 p.m. - 10:00 p.m.

**International Night - Student Exchange**

(Finalists Only-Casual Attire-Buffer Dinner)

Sponsored by *Scientific American*

*Cobo-Riverview Ballroom*

## Schedule of Events

### Monday, May 8, 2000

7:00 a.m. - 5:00 p.m.

**Tour Desk**

*Oakland Atrium*

8:00 a.m. - 5:00 p.m.

**Cyber Lounge**

*Room O2-33*

8:00 a.m. - 10:00 p.m.

**Official Party Registration**

*Oakland Atrium*

8:00 a.m. - 10:00 p.m.

**SRC Interviews**

*Room D0-1A*

8:00 a.m. - 11:00 p.m.

**Student Resource Center**

*Room O2-44*

8:00 a.m. - 11:00 p.m.

**Project Setup, D&S Inspection**

Note: Finalists transporting their own projects may unload them only if they have registered. *EACH ITEM MUST BE CLEARLY MARKED WITH FINALIST'S NAME, ADDRESS, AND FAIR ID NUMBER.*

9:00 a.m. - 6:00 p.m.

**Science Service Office**

*Room O2-37*

9:00 a.m. - 5:00 p.m.

**Host Committee Office**

*Room O2-35*

9:00 a.m. - 5:00 p.m.

**ShopTalk**

*Rooms O2-41, 42, & 43*

10:00 a.m. - 10:00 p.m.

**International Office**

*Room O2-38*

10:00 a.m. - 5:00 p.m.

**Future Fairs Office**

*Room W2-57*

1:00 p.m. - 2:30 p.m.

**Advisory Council Meeting**

*Room W2-63*

6:00 p.m. - 8:00 p.m.

**Opening Ceremony**

Dinner, Casual Attire

*Cobo Arena (2nd Tier)*

8:00 p.m. - 10:00 p.m.

**Opening Ceremony Dinner**

*Cobo Arena*



## Schedule of Events

### Tuesday, May 9, 2000

7:00 a.m. - 2:00 p.m.

#### **Tour Desk**

*Oakland Atrium*

8:00 a.m. - 2:00 p.m.

#### **Cyber Lounge**

*Room O2-33*

8:00 a.m. - 10:00 p.m.

#### **Official Party Registration**

*Oakland Atrium*

8:00 a.m. - 12:00 Midnight

#### **Student Resource Center**

*Room O2-44*

8:00 a.m. - NOON

#### **Project Setup, D&S Inspection**

Note: Setup and inspection of **ALL** projects must be complete by this time. Finalists should assume that they will not return to their projects until **7:00 a.m. on Wednesday**, and must turn off all electrical items before leaving at noon. Only finalists who require further clearance for their projects will be allowed to return to Oakland Hall, beginning at 10:00 p.m.

9:00 a.m. - 6:00 p.m.

#### **Science Service Office**

*Room O2-37*

9:00 a.m. - 6:00 p.m.

#### **Host Committee Office**

*Room O2-35*

9:00 a.m. - 5:00 p.m.

#### **ShopTalk**

*Rooms O2-41, 42, & 43*

8:00 a.m. - 2:00 p.m.

#### **International Office**

*Room O2-38*

10:00 a.m. - 5:00 p.m.

#### **Future Fairs Office**

*Room W2-57*

NOON - 4:00 p.m.

#### **Final Project Review**

· Display and Safety Committee

· Scientific Review Committee

NOON - 2 p.m.

#### **Excellence in Science and Technology**

**Panel (Formerly, Evening with the Nobels)**

*Room W2-60*

## Schedule of Events

### Tuesday, May 9, 2000, *continued*

2:00 p.m. - 10:00 p.m.

**Welcoming Party**

*Henry Ford Museum, Greenfield Village*

10:00 p.m. - 12:00 Midnight

**Final Project Clearance**

Note: Both the Scientific Review Committee and Display and Safety will have conducted a final review of **ALL** projects on Tuesday afternoon. If any problems with a project are identified during that review, the finalist's booth number will be posted outside the Exhibition Hall after 6:00 p.m. on Tuesday. **ONLY** those finalists with identified problems will be permitted in the Exhibition Hall beginning at 10:00 p.m. **NO OTHERS WILL BE ADMITTED. NO PROJECT CAN BE JUDGED UNLESS ALL PROBLEMS HAVE BEEN CLEARED BY TUESDAY MIDNIGHT.**

### Wednesday, May 10, 2000

7:00 a.m. - 8:00 a.m.

**Final Project Check by Finalists**

Note: **ONLY FINALISTS ARE PERMITTED IN OAKLAND HALL AT THIS TIME.** Any materials required for judging should be present after this check. Electrical items that can be operated in an unattended mode should be turned on at this time. Judges will review projects later in the morning before students report to begin formal interviews at 12:00 p.m.

7:00 a.m. - 10:00 p.m.

**Official Party Registration**

*Oakland Atrium*

7:00 a.m. - 5:00 p.m.

**Tour Desk**

*Oakland Atrium*

8:00 a.m. - 7:00 p.m.

**Cyber Lounge**

*Room O2-33*

8:00 a.m. - 9:00 p.m.

**International Office**

*Room O2-38*

9:00 a.m. - 6:00 p.m.

**Science Service Office**

*Room O2-37*

9:00 a.m. - 6:00 p.m.

**Host Committee Office**

*Room O2-35*

## Schedule of Events

### **Wednesday, May 10, 2000, *continued***

9:00 a.m. - 5:00 p.m.	<b>ShopTalk</b> <i>Room O2-41, 42, 43</i>
Noon	<b>Exhibit Hall Open - Finalists &amp; Judges ONLY</b>
12:00 p.m. - 2:30 p.m.	<b>Finalists at Projects for Interviews</b> (professional attire)
2:30 p.m. - 2:55 p.m.	Break
3:00 p.m. - 5:00 p.m.	<b>Finalists at Projects for Interviews</b>
5:00 p.m.	Exhibit Hall Closes
5:00 p.m. - 7:00 p.m.	<b>Break</b>
7:00 p.m.	<b>Exhibit Hall Reopens</b>
7:15 p.m. - 8:30 p.m.	<b>Finalists at Projects for Interviews</b>
7:00 p.m. - 9:00 p.m.	<b>Adult General Session</b> <i>Room M3-31-32</i>
9:00 p.m. - Midnight	<b>Student Mixer</b> (casual attire) <i>Comerica Park (Detroit Tiger Stadium)</i>
9:00 p.m. - 1:00 a.m.	<b>Adult Mixer</b> (casual attire) <i>Fox Theater</i>
9:00 p.m. - Midnight	<b>Judges Mixer</b> (casual attire) <i>Ponchartrain Hotel, Top of the Ponch</i>

### **Thursday, May 11, 2000**

7:00 a.m. - 5:00 p.m.	<b>Tour Desk</b> <i>Oakland Atrium</i>
8:00 a.m. - 10:00 p.m.	<b>Official Party Registration</b> <i>Oakland Atrium</i>
8:00 a.m. - 10:00 p.m.	<b>Photography Sales Desk</b>
8:00 a.m. - 5:00 p.m.	<b>Cyber Lounge</b> <i>Room O2-33</i>
9:00 a.m. - 6:00 p.m.	<b>Science Service Office</b> <i>Room O2-37</i>

## Schedule of Events

### Thursday, May 11, 2000, *continued*

8:00 a.m. - 9:00 p.m.	<b>Public &amp; School Visitation</b>
9:00 a.m. - 6:00 p.m.	<b>Host Committee Office</b> <i>Room O2-35</i>
9:00 a.m. - 5:00 p.m.	<b>ShopTalk</b> <i>Room O2-41, 42, 43</i>
9:00 a.m. - 12:00 p.m.	Finalists at Projects ( <b>Fair IDs 100101 to 410801</b> ) for General Public and School Visitation
10:00 a.m. - 2:00 p.m.	<b>Special ShopTalk/Luncheon</b> (Luncheon for ShopTalk attendees ONLY) <i>Room W2-64/65</i>
12:00 p.m. - 3:00 p.m.	Finalists at Projects ( <b>Fair IDs 410802 to 850238</b> ) for General Public and School Visitation
2:00 p.m. - 4:00 p.m.	<b>Advisory Council Meeting</b> <i>Room W2-63</i>
5:30 p.m. - 7:30 p.m.	<b>Dinner</b> <i>Provided by the Detroit Host Committee (dressy attire)</i> <i>Cobo Center, Wayne Hall</i>
8:00 p.m. - 10:00 p.m.	<b>Special Awards Ceremony</b> <i>Cobo Arena</i>

### Friday, May 12, 2000

8:00 a.m. - 5:00 p.m.	<b>Official Party Registration</b> <i>Oakland Atrium</i>
8:00 a.m. - 10:00 p.m.	<b>Photography Sales Desk</b> <i>Oakland Atrium</i>
8:00 a.m. - 10:00 p.m.	<b>Science Service Office</b> <i>Room O2-37</i>
8:00 a.m. - 10:00 p.m.	<b>Host Committee Office</b> <i>Room O2-35</i>
8:00 a.m. - 10:00 a.m.	<b>Government Awards Ceremony</b> <i>(professional attire)</i> <i>Cobo Arena</i>
9:00 a.m. - 5:00 p.m.	<b>Public Visitation</b>
1:00 p.m. - 5:00 p.m.	<b>Exhibit Hall closed to ALL Official Party Members and Finalists</b>

## Schedule of Events

### Friday, May 12, 2000, *continued*

1:00 p.m. - 3:30 p.m.	<b>Grand Awards Ceremony</b> <i>(professional attire)</i> <i>Cobo Arena</i>
5:00 p.m. - 10:00 p.m.	<b>Exhibit Hall Closed</b>
5:00 p.m. - 9:00 p.m.	<b>Closing Celebration</b> <i>TBA</i>
10:00 p.m. - Midnight	<b>Project Teardown</b>

Note: Students take down and pack projects for return home. Any stored packing material will be at project location. Students transporting their own projects will load them upon completion of packing. Projects to be shipped will receive final processing and labeling. *ALL PERSONS REQUIRING ACCESS TO THE EXHIBITION HALL FLOOR MUST HAVE AND DISPLAY ISEF NAME TAGS AT ALL TIMES DURING THE "TEARDOWN."*

*NO EXCEPTIONS WILL BE MADE.*

Join us in  
*San Jose, California*  
*May 6-12, 2001*  
for the Intel International Science and  
Engineering Fair  
*Presented by Applied Materials, Inc.*  
  
*"A Science Odyssey"*

# Sponsors

The Detroit Host Committee and Science Service gratefully acknowledge the following corporate sponsors of the 51<sup>st</sup> International Science and Engineering Fair. Sponsors listed below have contributed to the FutureLINK campaign sponsored by the Engineering Society of Detroit and the ESD Foundation. FutureLINK is charged with the support of ISEF2000, the local science fair, and programs to promote science and engineering for youth.

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Hydraulic Concrete Breaking Co.  
Inland Press







# Grand Awards Presenters

Science Service would like to acknowledge presenters of the Grand Awards Categories:

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Behavioral and Social Sciences

Biochemistry

Chemistry

Computer Science

Engineering

Microbiology

Physics

Zoology

## **AARP Andrus Foundation**

Gerontology

## **Panasonic Consumer Electronics Company**

Mathematics

## **Merck Research Laboratories**

Medicine and Health

## *Scientific American*

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## *Science News*

Team Projects

## **U.S. Environmental Protection Agency**

Botany

Environmental Science

# Intel ISEF Supporters

We would also like to thank the following groups for supporting the Intel International Science and Engineering Fair:

**Discover Magazine**

**National Aeronautics and Space  
Administration (NASA)**

**The Nasdaq Stock Markets**

**Nature Magazine**

# Special Awards Organizations

Each year government, professional and educational organizations provide scholarships, internships, book and equipment grants and scientific field trips to selected Intel ISEF Finalists. Science Service and Intel would like to thank the following for their continued support:

AARP Andrus Foundation  
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American Association of Physics Teachers and  
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# Special Awards Organizations

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Vacuum Technology Division of the  
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# Detroit Host Committee

## ISEF2000

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<b>Welcome to Detroit Event .....</b>	<b>Bill Pretzer</b>
<b>AP Testing Coordinator .....</b>	<b>Gene Menton</b>

# Intel

Science Service would like to thank Intel for their many contributions to the International Science and Engineering Fair.

Intel employees attending the Intel ISEF:

## **Carlene Ellis**

*Vice President, Education*

---

Peter Broffman	Executive Director, Intel Foundation
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Cait Goldberg  
Matt Greene  
Ray Hart  
Tzeitel Hirni  
June Kee  
Jinny Kim  
James Moore  
Vernon Miller  
Anthony Payne  
Diane Rashid  
Jenny Resch  
Paul Roger  
Thomas Smith  
Kimberly Stafford  
Theresa Tronolone

Executive Assistant  
Program Assistant  
Development Associate  
SRC Coordinator  
Official Party Registration  
Operations  
Senior Accountant  
Events Manager  
Program Assistant  
Program Assistant  
Official Party Registration  
Operations  
Operations  
Program Assistant  
Accounting  
Operations  
Information Technology Specialist  
Special Coordinator  
International Liaison

# Advisory Council

Tony D. Marable- *Chairperson*  
Jeff Peneston - *Vice-Chairperson*  
Sylvia S. Ingram - *Secretary*

Deidre Ailles  
Nancy A. Besley  
Jim Bryan  
John D. Cook, Jr  
Kelley Corkern  
Henry Hartman  
Diane Hecht  
Dr. Jack D. Johnson  
Michael Lawson  
Errol C. Miller  
Albert C. Myrick  
Vanetta Perry  
Jo Anne Reid  
Dr. Virginia Rhodes  
Stephen Scott  
Dayon Taylor  
Denise Turso  
D. Joe Williams  
Melanie Wojtulewicz  
Mary H. Young

*Alternates:* Michelle Norgren, George Ochs, and Walter Reemtsma

## Scientific Review Committee

Virginia Rhodes - *Chairperson*

Nancy Aiello

Henry Disston

Ira Grayson

Paula Johnson

Chris Miller

Evelyn Montalvo

Mary Kalen Romjue

James Stevens

## Display & Safety Committee

Dayon Taylor, *Chairperson*

Kelley Corkern

John O. Cole

Henry Hartman

Bobby Lumpkins

Jack Johnson

James R. Lowery

Tony D. Marable

Bonnie Schmidt

# Thank You

Science Service would especially like to recognize and thank the following for their support of the Intel ISEF. Their countless hours of hard work and dedication are greatly appreciated.

Lew Wilson

*President and CEO, Technical Sales and Service*

Karen Grier

*United Parcel Service*

S.R. (Buddy) Bounds

Carrie Harless

Mike Hill

Jason Hill

Dr. Charles Joiner

James Lowery

Jodie Miller

Becky Rotundo

George Williams

Dr. Andrew Yeager

Science Service would also like to thank the thousands of judges, volunteers and fair directors who make the Intel ISEF possible year after year.

# Locator

*All events at Cobo Conference and Exhibition Center unless otherwise noted.*

<b>Event / Group</b>	<b>Location</b>	<b>Day</b>
Adult General Session	M3-31-32	5/10
Adult Mixer	Fox Theater	5/10
Advisory Council Meetings	W2-63	all
AP Testing	DO-3A-D; DO-6A & B	all
Closing Celebration	TBA	5/12
College Information Booths	Cobo Atrium	all
College Scholarship Ceremony	Cobo Arena	5/11
Cyber Lounge	O2-33	all
Excellence in Science & Technology Panel	W2-60	5/9
Exhibits and HUB	Oakland Hall	all
Grand Awards Ceremony	Cobo Arena	5/12
Government Awards Ceremony	Cobo Arena	5/12
Host Committee Office	O2-36	all
Host Dinner	Wayne Hall	5/11
Housing Information	Oakland Atrium	all
General Information Booth	Oakland Atrium	all
International Night (Students)	Riverview Ballroom	5/7
International Office	O2-38	all
Judges Registration	Oakland Atrium	5/9
Judges Mixer	Top of the Ponch	5/10
Locator Card Kiosk	Oakland Atrium	all
Lost and Found	HUB and Registration	all
Medals and Certificates	Oakland Hall Atrium	all
Official Party Registration	Oakland Atrium	all
Opening Ceremony	Cobo Arena	5/8
Opening Ceremony Dinner	Cobo Arena	5/8
Photography Sales Desk	Atrium	5/7
Press Office	O3-45	all
Science Service Office	O2-37	all
Scientific Review Committee	DO-1A, DO-2A & 2B, DO-4A-C	5/7
Shoptalk	O2-41, 42, 43	all
Special Awards Ceremony	Cobo Arena	5/11
Special Shoptalk / Luncheon	W2-64/65	5/11
Student Mixer	Comerica Park	5/10
Student Resource Center	O2-44	all
Tour Desk	Oakland Atrium	all
Volunteer Office and Lounge	M2-30	all
Welcome to Detroit Event	Henry Ford Museum/Greenfield Village	5/8

## NOTES

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