2018 GSDSEF
Photos of Judging Day

Special Acknowledgements
Many thanks to the Sponsors of GSDSEF

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Sony Playstation

Kinder Morgan Foundation

AFCEA

UTC Aerospace Systems
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ONR (Office of Naval Research)

San Diego Taiwanese Cultural Center

San Diego Zoo Global

Friends of GSDSEF
A Study of Ointment-Based Asthma Treatment

Using ointments in the delivery of corticosteroid drugs in order to increase convenience and adherence.
Special Appreciation and Acknowledgement to the

San Diego Air & Space Museum

Balboa Park Activity Center

City of San Diego Parks and Recreations
The Structure of Fibrils and Filaments on the Solar Chromosphere

**Equipment**
- Alpha source
- Physical Kaleidostatic EM
- A goniometer
- A 400-nm thick aluminum filter

**Preparation**
- After 2 minutes of exposure, remove the photographic plate from the camera
- Place the plate in a filter
- Expose the plate to the sun's light

**Findings**

- High-speed high-resolution micrograph
- Atmospheric dispersion corrector
- Camera
- Atmospheric dispersion corrector (substitute for flat substrates)
- Capture software (Sharpcap 3.3)
- Stacking software (RegiStax 6.4, Autostakkert)
- Processing software (RegiStax 6, GIMP)
- Measurement software (DAviImage 5.10)
GSDSEF is an affiliate of

California Science & Engineering Fair

ISEF: Intel International Science and Engineering Fair

Broadcom Masters
Special Thanks and Gratitude to the...

400 Judges

30 Screeners

60 Professional Societies

100 Volunteers

170 Teachers/Advisors

Many Parents

and most of all – our 600 Student Exhibitors!
<table>
<thead>
<tr>
<th><strong>Screening Coordinators</strong></th>
<th><strong>Judging Coordinators</strong></th>
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<tbody>
<tr>
<td>Steve Rodecker</td>
<td>Larry Nordell</td>
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<tr>
<td>Rose Armour</td>
<td>Vickie Driver</td>
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<tr>
<td>MaryAnn Quon-Warner</td>
<td>Howard Grunloh</td>
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<tr>
<td>Janet Nordeen</td>
<td>Annalese Kapteina, MD</td>
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<tr>
<td>Donna Kritz-Silverstein, PhD</td>
<td>Peter Salamon, PhD</td>
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<tr>
<td>Committee</td>
<td>Members</td>
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<tr>
<td>Fundraising/Grants Committee</td>
<td>Donna Spevack, Sany Zakharia, True Xiong, James Kuo, MD, Alina Pollner, SAB</td>
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<tr>
<td>Professional Societies Committee</td>
<td>Adina Sobo, Rejal Pabari, Diane Vermuelen, Douglas Smith, Zie Nieh, Alyson Smith</td>
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<tr>
<td>Logistics Committee</td>
<td>Kevin Guentner, Chris Guentner</td>
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<tr>
<td>Parking/Traffic Committee</td>
<td>James Kuo, MD, Gigi Kuo, MD</td>
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Board of Directors
and Management Committee

Awards Committee/Awards Fleet*

- Phil Gay*
- Sany Zakharia
- Sam Ferguson
- True Xiong
- Elaine Gillum
- William Proffer*

Project Size and Safety

- Hal Slater
- Steve Rodecker
- Qun Wei
- Brendan Haberle

Data Compilation & Processing

- Dale Clarke
- Douglas Smith
- Jie Wang
- True Xiong
- Sany Zakharia

Public Relations/Marketing

- Kim Ferguson
- William Proffer
- Sany Zakharia
- Dale Clarke
- Arwa Alkhawaja
- Sejal Pebari
Board of Directors and Management Committee

Scientific Review Committee
Phil Gay
Wendy Gay
Steve Rodecker
True Xiong
Brendan Haberle
Sabine Ottilie
Douglas Smith

Website Committee
Dale Clarke
Jelen Rodecker
Wendy Gay
Mark Atkins
Douglas Smith
Aadil Rehan, SAB

School Relations Committee
Wendy Gay
Steve Rodecker
John Speigel, SDCOE
John Lazarcik, ICOE
Julia Cantillion, Diocese

Volunteers Committee
True Xiong
Donna Spevack
Barb Ritchie
**Board of Directors and Management Committee**

<table>
<thead>
<tr>
<th>Hospitality</th>
<th>Graphics Arts/Publishing</th>
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<tr>
<td>Melanie Guentner</td>
<td>Jelen Rodecker</td>
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<tr>
<td>Phil &amp; Wendy Gay</td>
<td>Wendy Gay</td>
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<td>Donna Spevack</td>
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<tr>
<th>Facilities/Venue</th>
<th>Historians</th>
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<tr>
<td>Phil Gay</td>
<td>Don Pankau</td>
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<tr>
<td>Steve Rodecker</td>
<td>Douglas Smith</td>
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<tr>
<th>Gift Shop</th>
<th>Student Tours</th>
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<tr>
<td>Jessica Ullyott</td>
<td>Maria Pankau</td>
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## SAB Officers

- Maggie Chen, Co-chair
- Daniel Zhang, Co-chair
- Aadil Rehan, Vice-chair
- Alina Pollner, Co-secretary
- Rachana Madhukara, Co-secretary
- Colin Tam, Outreach Chair

## SAB Advisors

- Fardusa Sharif
- Phil & Wendy Gay
- Lucy Chen
- Jie Wang
- Jelen Rodecker
- Kevin Guentner

Our appreciation to ALL of the Student Advisory Board members who plan and present Student Workshops, organize and conduct Family Science Day activities, and assist in all aspects of the GSDSEF.