Directed Energy Professional Society

Annual Membership Report

Dr. David Stoudt, President
23 March 2021
Directed Energy Professional Society

• Celebrating 21 years of fostering research, development, & operational transition of Directed Energy technology for national defense and civil applications through professional communication, education and outreach

Our Goals

• Foster communication within the DE community
• Enhance DE education through scholarships & internships
• Recognize outstanding DE contributions through our Fellows program
• Publish and archive DE achievements (Journal of Directed Energy)
• Enable DE Outreach through Professional Conferences and Symposia
## 2019-2021 DE Defense Appropriations

<table>
<thead>
<tr>
<th>Agency</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Army</td>
<td>$148M</td>
<td>$118M</td>
<td>$446M</td>
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<tr>
<td>US Navy</td>
<td>$259M</td>
<td>$243M</td>
<td>$235M</td>
</tr>
<tr>
<td>US Air Force</td>
<td>$265M</td>
<td>$238M</td>
<td>$214M</td>
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<td>Missile Defense Agency</td>
<td>$224M</td>
<td>$116M</td>
<td>$42M</td>
</tr>
<tr>
<td>Joint Non-Lethal Weapons</td>
<td>$47M</td>
<td>$48M</td>
<td>$48M</td>
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<tr>
<td>DE Joint Transition Office</td>
<td>$57M</td>
<td>$63M</td>
<td>$44M</td>
</tr>
<tr>
<td>OSD (+DARPA &amp; SOCOM)</td>
<td>$122M</td>
<td>$127M</td>
<td>$164M</td>
</tr>
<tr>
<td><strong>Total DE Budget</strong></td>
<td><strong>$1122M</strong></td>
<td><strong>$953M</strong></td>
<td><strong>$1193M</strong></td>
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DIRECTED ENERGY PROFESSIONAL SOCIETY - DISTRIBUTION A/ Public Release
DEPS Strategic Objectives

• **Restore Fiscal Stability**
  • Complete, however Covid 19 impact was/is real

• **Increase membership/diversity**
  • Increase in our younger population
  • Increase in gender & ethnic diversity
  • Increase in our military membership

• **Re-establish educational outreach efforts**
Annual Achievements

• Awarded $140k of graduate Scholarships
  • Thanks to DE JTO and ONR for their support
  • 86% placement rate of scholars into the DE career field
  • Both AFRL/RD and NSWC/DD have actively recruited from the DEPS Scholarship pool

• Successful conferences in NM (T&E, Jan 20) & NY (S&T, Mar 20)
  • Classified & Limited Distribution venues sets DEPS apart from other professional societies & commercial conferences
  • Virtual Systems Symposium in November 2020
    • 1st DoD conference approval using the DoD-approved MS Teams for a Critical Unclassified Information (CUI) event
  • Virtual T&E conference in January 2021
    • 2nd DoD conference approval using MS Teams for a CUI event
COVID-19 impact on 2020 & 2021

• A Total of 131 cancellations received for the West Point S&T conference, a significant impact to both the technical agenda and attendance. Had an impact on the 2020 DEPS budget.

• A 1st PPP loan ($84,900) was awarded to DEPS in April 2020, based on lost revenue from the S&T conference. That loan was converted into a grant (no repayment) in October 2020.

• A New Mexico state grant ($10,000) was awarded in Jan 2021.

• A 2nd PPP loan ($83,120) was awarded to DEPS in Feb 2021, based on lost revenue for 2020. The DEPS Board has the authority to expend those funds.

• Across multiple professional societies, the virtual exhibition hall experience has not met expectations. Exhibitors have fallen off more than 60% from historic values for most events. DEPS appreciates our exhibitors that have worked through these challenges.

• Virtual conference attendance is waning across many technical societies. There is a strong demand signal for in-person conferences later in 2021.
## DEPS Financial Status

### Cash on hand
- **Mar 2020**: $335,850
- **Mar 2021**: $200,475

### Operating Funds
- **Mar 2020**: $315,500
- **Mar 2021**: $319,790

### Reserves
- **Mar 2020**: $315,500
- **Mar 2021**: $319,790

### 2020 budget
- **Income**: est $1,655,000 / act $1,410,280
- **Expenses**: est $1,635,000 / act $1,329,614

### Independent Audits
- 2019 Audit completed, no significant findings
- 2020 Audit begun

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**DEPS has not had to dip into our Reserve Funds... Yet**
DEPS Scholarship Fund

• Five-year plan to create a $500k scholarship endowment
  • That would fund two named scholarships annually, in perpetuity ($10k/award)
  • Expect a 4.5% annual withdrawal, consistent with standard endowment practices
  • Five-year gifting program also consistent with standard endowment practices
• Board has approved one named scholarship for Dr. Sam Blankenship
  • 1st DEPS Executive Director (2001-2012)
• DE JTO has approved one named scholarship for Dr. Jack Slater (2020-2024)
  • JTO Technical Advisor (2001-2018)
DEPS Committees

- **Board of Scientific & Engineering Advisors**
  - Membership limited to new and immediate past Fellows
  - Review/recommend Scholarship awards (packages due 30 April)
  - Review/recommend Fellows packages (packages due 1 Nov)
  - New Fellows will be recognized at 1200 on 24 March

- **Education Outreach committee**
  - High School Science Fair STEM awards
    - Covered Dallas TX & central New Mexico, awarded $2500 in prizes & teacher stipends
    - A Big Thank you to those who volunteered to help with the judging
  - Volunteers are still needed for other state Science Fair locations
  - Contact Cristina Crowson (cristina@deps.org) to volunteer
## DEPS Board of Directors
Elected by the DEPS Membership

<table>
<thead>
<tr>
<th>Serving Directors</th>
<th>New Director</th>
<th>Departing Director</th>
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<tbody>
<tr>
<td>*Dave Stoudt (BAH)</td>
<td>Jeff Maloney (II-VI)</td>
<td>Sean Ross (AFRL)</td>
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<tr>
<td>*John Hartke (USMA)</td>
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<tr>
<td>Don Seeley (ATA)</td>
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<tr>
<td>Diana Loree (DE JTO)</td>
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<tr>
<td>Stephanie Miller (AFRL)</td>
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<tr>
<td>Adam Aberle (SMDC)</td>
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<tr>
<td>Chris Behre (NSWC)</td>
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<tr>
<td>Michael O’Connor (nLight)</td>
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**DEPS Officers**  
**Elected by the Board of Directors**

**New Officers (to be selected)**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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<tbody>
<tr>
<td>President</td>
<td>Dave Stoudt</td>
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<tr>
<td>Vice President</td>
<td>John Hartke</td>
</tr>
<tr>
<td>Secretary</td>
<td>Bill Decker (Emeritus)</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Don Seeley</td>
</tr>
<tr>
<td>BSEA Liaison</td>
<td>Diana Loree</td>
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DEPS 2021/22 Events

• DEPS Annual Science & Technology Symposium
  • 22-26 March 2020, Virtual event

• DEPS Systems Symposium
  • 25-29 Oct, Washington DC & Navy Yard

• DEPS/ITEA Test & Evaluation Conference
  • 1-3 Feb 2022, Albuquerque NM

• DEPS Annual S&T Symposium
  • 25-29 April 2022, Mobile AL

• DEPS Systems Symposium
  • 14-18 Nov 2022, La Jolla CA
Thank you to our DEPS Sponsors

nLIGHT
Booz | Allen | Hamilton

Raytheon

COHERENT

Northrop Grumman

Lockheed Martin

Ball

MZA

Applied Energetics

Boeing

General Atomics Electromagnetics

Sem-Sol

Leonardo

II-VI Optical Systems

Optimax

ARA

Excellitas Technologies

Bluehalo

L3 Harris