STEM INSPIRE - ENGAGE - EDUCATE - EMPLOY
The Next Generation of Explorers

Fall 2018 National Space Grant Director’s Meeting
Stowe, Vermont

Michael Kincaid, Joeletta Patrick and Erica Alston and Team

September 14, 2018
Questions and Answers

Please go to this website to ask questions:

jsc.cnf.io
Key Updates

FY18 Accomplishments
Vision:
We immerse the public in NASA’s work, enhance STEM literacy, and inspire the next generation to explore.

Mission:
We engage the nation in NASA’s mission

**Focus Areas**

- Create **unique opportunities** for students and the public to contribute to NASA’s work in exploration and discovery.
- Build a **diverse future STEM workforce** by engaging students in authentic learning **experiences** with NASA’s people, content and facilities.
- Strengthen **public understanding** by enabling **powerful connections** to NASA’s mission and work.
# NASA’s Strategy for Public and STEM Engagement

## STEM Engagement in the context of NASA’s Mission

<table>
<thead>
<tr>
<th>NASA Vision</th>
<th>To discover and expand knowledge for the benefit of humanity.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Mission</td>
<td>Lead an innovative and sustainable program of exploration with commercial and international partners to enable human expansion across the solar system and bring new knowledge and opportunities back to Earth. Support growth of the Nation’s economy in space and aeronautics, increase understanding of the universe and our place in it, work with industry to improve America’s aerospace technologies, and advance American leadership.</td>
</tr>
<tr>
<td>NASA Strategic Goal 3</td>
<td>Address national challenges and catalyze economic growth.</td>
</tr>
<tr>
<td>NASA’s Public and STEM Engagement Vision</td>
<td>Immerse the public in NASA’s work, enhance STEM literacy, and inspire the next generation to explore.</td>
</tr>
<tr>
<td>NASA’s Public and STEM Engagement Mission</td>
<td>Engage the Nation in NASA’s mission.</td>
</tr>
<tr>
<td>NASA’s Public and STEM Engagement Mission Focus Areas</td>
<td>Create unique opportunities for students and the public to contribute to NASA’s work in exploration and discovery.</td>
</tr>
</tbody>
</table>
NASA’s Contributions to the STEM Ecosystem

U.S. STEM Challenges

- U.S. PISA scores 26th internationally
- Projected STEM R&D job growth 8.9% through 2024
- Women in S&E occupations <33%
- Underrepresented minorities in S&E <11% below their share of the population (27%)

Students and Educational Institutions

- Authentic STEM learning experiences
- Research opportunities

NASA STEM Engagement

- Contributions to national economy

NASA Mission Needs

- Research
- Technology development

NASA & Aerospace Industry Workforce Needs

- NASA workforce average age: 48.9
- Diverse pipeline

Contributions to national economy

STEM Domain Experts

The Next Generation of Explorers
Establish an Agency STEM Engagement Strategy and Operational Model

• Agency vision, mission and strategy to frame and align the agency’s STEM engagement portfolio will:
  o Focus on students as beneficiaries and structured model
  o Mission-driven architecture for scope and approach
  o Focus on evidence-based NASA-unique learning experiences
  o Drive toward enabling student contributions to NASA’s work in action

• Effective, integrated governance via a NASA decisional Council
• Re-invigorated agency function and HQ functional office
• Rigorous planning process
• Integrated operational model and agency STEM Engagement portfolio
• Effective program and fiscal management practices
• Capabilities driven approach for agency roles and responsibilities
• New approach and tools for performance measurement and assessment
• Scalability and magnified impact through strategic partnerships
NEW ARCHITECTURE ENABLING STUDENT OPPORTUNITIES AND CONTRIBUTIONS

STEM and Public Engagement focus areas

- Evidence-based strategies
- Rigorous planning
- Integrated operational model
- Creating unique opportunities for students to contribute to NASA’s work
- Building a diverse future STEM workforce by engaging students in authentic learning experiences.
- Strengthening public understanding by enabling powerful connections to NASA’s mission and work.
- Strategic, balanced portfolio
- NASA-unique learning experiences
- Student contributions to NASA’s work in action

Scalability to magnify NASA’s reach and impact

Beneficiaries of NASA’s STEM Engagement Portfolio

NASA Mission Directorate Drivers & Requirements
Office of STEM Engagement Organization

ASSOCIATE ADMINISTRATOR
DEPUTY ASSOCIATE ADMINISTRATOR FOR STRATEGY & INTEGRATION
DEPUTY ASSOCIATE ADMINISTRATOR FOR PROGRAMS
SENIOR ADVISOR

RESOURCES MANAGEMENT

STEM ENGAGEMENT COUNCIL

CENTER STEM ENGAGEMENT DIRECTORS

STEM ENGAGEMENT PROGRAMS

- National Space Grant College and Fellowship Project
- Minority University Research and Education Project (MUREP)
- Established Program to Stimulate Competitive Research (EPSCoR)
- STEM Education and Accountability Project (SEAP)

STRATEGY AND INTEGRATION

- Portfolio Integration
- Performance Measurement and Assessment
- Infrastructure, Tools and Platforms
- Strategic Partnerships
- NASA Internships and Fellowships
- NextGenSTEM Initiatives
- Stakeholder engagement

Effective 08/29/2018
Federal STEM Education 5-Year Strategic Plan

Purpose
Coordinate federal STEM education strategy and investment, and serve as a ‘North Star’ to guide state and local STEM education initiatives

NASA Impact
Co-STEM co-chair: Administrator Jim Bridenstine
FC-STEM co-chair: Associate Administrator Mike Kincaid
5-Year Plan Writing Team: Bev Girten, Rob LaSalvia, Rick Gilmore, Susan Poland
Key Updates

FY18 Accomplishments
## STEM Engagement FY2018 Key Accomplishments

<table>
<thead>
<tr>
<th>Systemic</th>
<th>Programmatic</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Chartered and established STEM Engagement Council. (03/30/18) Convened inaugural session of the Council. (04/12/18)</td>
<td>✓ Put in place an integrated program management approach for EPSCoR, MUREP and Space Grant, with corresponding staff changes.</td>
</tr>
<tr>
<td>✓ Completed development of new STEM Engagement NASA Policy Directive. (02/21/18) Will undergo formal agency process. (Sep-Oct 2018)</td>
<td>✓ Overhauled SEAP, incorporating significant changes to approach for awards to informal education institutions (TEAM II) and innovative new mission-driven pilot initiatives.</td>
</tr>
<tr>
<td>✓ Established new Office of STEM Engagement. (effective 08/29/18)</td>
<td>✓ Achieved improvements in interfaces and relationships with Space Grant Consortia and their key stakeholders.</td>
</tr>
<tr>
<td>✓ Completed definition of new performance measurement and assessment approach. (07/15/18)</td>
<td>✓ Streamlined MUREP with more focused, strategic award initiatives.</td>
</tr>
<tr>
<td>✓ Conducted analysis of existing infrastructure, tools &amp; systems. (03/15/18)</td>
<td>✓ Incorporated more rigorous, systematic program and fiscal management practices.</td>
</tr>
<tr>
<td>✓ Developed NASA Strategy for STEM Engagement. (Council approval 08/22/18)</td>
<td>✓ Streamlined and improved agency websites, platforms and social media tools.</td>
</tr>
<tr>
<td>✓ Streamlined and improved agency websites, platforms and social media tools.</td>
<td>✓ Developed and deployed a new NASA Internships and Fellowships website for students.</td>
</tr>
</tbody>
</table>
FY 2019 – 2022 OE/OSE Performance Framework

2018 NASA Strategic Plan

Strategic Goal 3: Address National Challenges & Catalyze Economic Growth

Strategic Objective 3.3: Inspire & Engage the Public in Aeronautics, Space, & Science

Office of STEM Engagement

Learning Agenda

Strategic Performance Assessment Questions

Success Criteria

External Multi-year Performance Goals

Internal Multi-year Performance Goals

External Annual Performance Indicators

Internal Annual Performance Indicators

FY 19/20 Performance & Evaluation Strategy

Learning Agenda
(What Do We Care About?)

Alignment to Evidence
(Lit Review, Benchmarking)
(Is this Program Designed to Achieve a Positive Outcome?)

Multiple Performance Measures
(Internal and External)
(Do We Have Leading Indicators of Success?)

Exploratory Studies
(What Does the Program Look Like in Practice?, What Contextual Factors are Influencing Success? How do we use findings to drive future work?)

Internal/External Review Panel
(Based Upon Evidence Presented, Are Programs Achieving Goals?)

Body of Evidence to Demonstrate Success and Refine Future Performance
8 STEM-onstrations posted online; 6 more in production

58 STEM-focused DOWNLINKS reaching 162,000 STUDENTS
And 38,000 TEACHERS

65 TOTAL PLANNED
by Oct 3 (end of YES)

Driven a 30.2% increase in traffic to STEM on Station website
53,071 views per month
40,749 in the same period before YES
Honoring Christa and teachers everywhere in partnership with The Challenger Center

www.challenger.org/christa
Internships and OSE Websites
**REDESIGNED WEBSITE AND ENHANCED SEARCH CAPABILITIES**

Provides direct access to search tools. Dropdown menu introduces a range of topics or categories based on audience.

Slider highlights key events and activities.

Slider to highlight major content areas / groupings.

Provides results as a query is typed, allowing users to get to the right content before finishing their thoughts. The algorithm includes:

- Spelling correction
- Bigram Matching
- Stemming
- Synonyms
- Phrase Matching
Space STEM Forum

Small Steps to Giant Leaps, Looking Forward to the Future of Space Exploration

Space STEM Forum:
NASA HQ – September 19, 2018

Theme:
Small Steps to Giant Leaps, Looking Forward to the Future of Space Exploration

Purpose:
Identify opportunities to collaborate and leverage individual STEM engagement activities and efforts with industry and professional organizations

Abstracts:
25 abstracts were selected, with 15 on national initiatives and 10 on resources and capabilities

Website:
Collaborative work website and public website will be created to facilitate implementation of outcomes
At A Glance:
- Center-based intern placements in 2018 across 52 state-based consortia
- 850 Affiliate members
- Incorporates State priorities, needs, and goals

Impact:
- Contribute to solve Mission Directorate challenges
- Increase collaboration and engagement with Space Grant and NASA Centers
- Increase diversity in the Nation’s STEM workforce

Elements of Approach:
- Mission Directorate collaborations
- Strategic partnership with NASA Centers
- Education, research, and informal education opportunities
- State-based Consortia Partnerships
Minority University Research and Education Project (MUREP)

At A Glance:
- Limited to Minority-Serving Institutions
- Responsive to Presidential Executive Orders
- Portfolio includes 7 funded activities

Elements of Approach:
- Student Opportunities
- MSI Partnerships and Sustainability
- Mission Directorate Collaborations
- K-12 Engagement

Impact:
- Contribute to solving Mission Directorate problems
- Increased STEM Awareness
- Increase retention of Underserved and Underrepresented groups in STEM
- Enhance MSI infrastructure and sustainability
Focused Portfolio
Redesigned portfolio to reduce the number of supported efforts from 14 to 7 to implement focused national efforts

Mission Directorate and OSE Collaboration
Activities implemented in the MUREP portfolio are in partnership with Mission Directorates and/or in collaboration with other OSE projects (EPSCoR, Space Grant, and NextGen STEM)

FY18 Solicitations
MUREP Innovations in Space Technology Curriculum (MISTC)
MUREP Aerospace Academy (MAA)
MUREP for Sustainability and Innovation Collaborative (MUSIC)
MUREP Funded Fellowships
Established Program to Stimulate Competitive Research (EPSCoR)

At A Glance:
- 27 Eligible States and Territories
- Incorporates State priorities, needs, and goals

Elements of the Approach:
- NASA Aligned University Research Opportunities
- ISS Flight Opportunities
- State Research Infrastructure Development

Impact:
- Expand universities’ NASA unique knowledge base
- Enhance state’s NASA specific research capabilities
- Promote NASA associated innovations
- Publicize NASA EPSCoR exclusive research results and activities
- Produce NASA qualified STEM workforce
EPSCoR Activities and Accomplishments

- Conducted 4 research solicitations in collaboration with NASA’s Mission Directorates
- Worked with NSF, DOE, USDA, & NIH to bring together EPSCoR director’s at All-Agency EPSCoR Meeting in D.C.
- Conducted a research Technical Interchange Meeting with GSFC researchers to establish collaborations on research projects
- Implemented a collaboration project between EPSCoR and MIRO (OSE projects)
NextGen STEM

At A Glance:
- Investments in formal and informal education communities and sustains NASA’s museum alliance
- Expanded ability to provide richer, more comprehensive STEM engagement opportunities

Elements of the Approach:
- Mission Directorate collaborations
- NASA-unique student projects and challenges
- Educator engagement and strategic partnerships
- Evidence-based stakeholder needs

Impact:
- Contribute to solving Mission Directorate challenges
- Leverage Center skills and capabilities
- Increase STEM Skills and Identity
- Enabling scalable Partnerships to increase NASA’s reach

NASA Mission Directorate Drivers & Requirements
NEXTGen STEM Changes Initiated in FY2018

- Revamped approach for Informal Solicitation
  - Focus on two **Agency themes**
  - Required involvement of affiliate networks of partners to expand reach

- Initiated proof-of-concept pilot activities
  - Focus on two themes above plus an additional **Agency theme**
  - Aligned to evidence-based education strategies
  - Work assigned based on Center skills and capabilities

- Sunsetting SEAP activities no longer in alignment with new approach to STEM Engagement
  - Insuring systematic process to capture performance, key accomplishments, and findings

**THEMES**

- Small Steps to Giant Leaps: Looking to the Future of NASA Aeronautics Innovation
- Moon to Mars: Human Exploration Beyond Low Earth Orbit
- Development of Commercial Crew Program Capabilities
Approach to Multi-year Solicitation
Challenges

Initial budget projections were ~ 7% over budget

Must get into the budget box

Restructure to meet BSA and Administration priorities

Address inequity in the current funding model
  • Designated vs Non-Designated States

Unsustainable award amounts
  • Expected reduction of carry-in amounts from FY2018 due to awardees funded (50 consortia -4th year and 2 consortia -3rd year) = “Living within our means”
Historical Space Grant Funding

NOTES: Full cost accounting implemented in 2011 impacted projects with respect to how projects must cover labor across the Agency.

Overall budget reduction in 2012

* Expected FY2018 obligations should be ~ $42M
Current Funding Structure

<table>
<thead>
<tr>
<th>Status</th>
<th>Number of Awards</th>
<th>Award Value</th>
<th>Award Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designated</td>
<td>35</td>
<td>$760,000</td>
<td>$26,600,000</td>
</tr>
<tr>
<td>Non-Designated</td>
<td>17</td>
<td>$570,000</td>
<td>$9,690,000</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td></td>
<td><strong>$36,290,000</strong></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Funding does not include U.S. VI and Guam as separate Consortia; they are serviced by South Carolina and Hawaii Space Grants respectively.
History of Space Grant Consortia Designations

- The first Space Grants represented 21 states, which became known as Designated once Congress directed that Space Grant expand into more states by offering Program Grant and Capability Enhancement (i.e., Non-designated) -> Designated status is not in the law or regulations
- Congress requested that NASA expand the number of designated states through competitive means in 1999 (25 designated), 2002 (28 designated), and 2004 (35 designated). This competition allowed states to increase to the higher funding level.
- Designation status among the 52 Consortia has not changed since 2004
Previous Award Levels

The value of Space Grant awards has varied over time:

– The last 5 year base award (2010-2014) per year paid:
  • Designated Consortia = $575,000
  • Non-Designated = $430,000
  • Competitive awards:
    – Consortium Development
    – Innovative Pilot
    – Community College and Technical School Opportunity

– The last 3 year base (2015-2017), augmentations and the 4th year extension (2018) per year paid:
  • Designated Consortia = $760,000
  • Non-Designated = $570,000
  • Competitive awards:
    – Undergraduate Student Instrument Project (USIP)
Possible Funding Levels

<table>
<thead>
<tr>
<th>Space Grant</th>
<th>FY2019 6% reduction</th>
<th>Funding Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Budget Guideline</strong></td>
<td><em>House Markup</em></td>
<td><strong>$40,000,000</strong></td>
</tr>
<tr>
<td>Awards</td>
<td></td>
<td><strong>$34,112,600</strong></td>
</tr>
<tr>
<td>Non-Awards</td>
<td></td>
<td><strong>$5,887,400</strong></td>
</tr>
<tr>
<td><strong>Balance</strong></td>
<td></td>
<td><strong>$0</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Space Grant</th>
<th>FY2019</th>
<th>Funding Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Budget Guideline</strong></td>
<td><em>Senate Markup</em></td>
<td><strong>$44,000,000</strong></td>
</tr>
<tr>
<td>Awards</td>
<td></td>
<td><strong>$38,112,600</strong></td>
</tr>
<tr>
<td>Non-Awards</td>
<td></td>
<td><strong>$5,887,400</strong></td>
</tr>
<tr>
<td><strong>Balance</strong></td>
<td></td>
<td><strong>$0</strong></td>
</tr>
</tbody>
</table>

NOTE: The President's Budget Request (FY2019) contains no funding for NASA's Office of STEM Engagement
Consortia Expenses Analysis
Median of Administrative Costs by State (Randomized)

Space Grant Administration Costs = Salary, Fringe, Equipment, Materials & Supplies, Services and Travel

NASA Program Costs = Center Requirements and Project Specific Costs (FTE/WYE, Travel, Conferences, Printing, NRESS)

- Median Space Grant Administration Costs ~23% (Median costs are calculated over both years)

NASA Program Costs ~6%
NOTE: A number of Consortia’s lead institutions waive or reduce the federally negotiated indirect rates for use as cost-match for the respective Consortium.
FY2018 4th Year Extension Consortia Proposed Costs ~ $36M

- 30% Awards (NIFS)
- 14% Higher Education
- 10% Research Infrastructure
- 9% Precollege
- 8% Informal Education
- 7% "Consortium Admin Costs"
- 4% Indirect Costs
- 2% Subcontracts

FY2018 4th Year Extension Consortia Proposed Costs ~ $36M
Current FY2019 Space Grant Requirements

- Awards: 85%
- Non-Awards: 15%
Future Funding Options
Funding Options Considered for Multi-year Award

• Equal funding
  – Award same value to each Consortium
• Current designated/non-designated distinction
  – Percentage reduction
• Competitive
  – Augment each award a specific award value
  – Annual thematic focus (community college, USIP, etc.)
• Population based
• Graduation model (Ex Comm recommendation)

NOTE (1): All funding options presented are based upon a $40M budget
NOTE (2): All NASA personnel should not vote
Equal Funding

- Each award is $650,000

### Option A

<table>
<thead>
<tr>
<th>Budget Guideline “House Markup”</th>
<th>$40,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awards</td>
<td>$33,800,000</td>
</tr>
<tr>
<td>Non-Awards</td>
<td>$5,887,400</td>
</tr>
<tr>
<td>Balance</td>
<td>$312,600</td>
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</tbody>
</table>

### Option B

<table>
<thead>
<tr>
<th>Budget Guideline “House Markup”</th>
<th>$40,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awards</td>
<td>$35,100,000</td>
</tr>
<tr>
<td>Non-Awards</td>
<td>$5,887,400</td>
</tr>
<tr>
<td>Balance</td>
<td>($987,400)</td>
</tr>
</tbody>
</table>

### Option C

<table>
<thead>
<tr>
<th>Budget Guideline “House Markup”</th>
<th>$40,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awards</td>
<td>$34,100,000</td>
</tr>
<tr>
<td>Non-Awards</td>
<td>$5,887,400</td>
</tr>
<tr>
<td>Balance</td>
<td>$12,600</td>
</tr>
</tbody>
</table>

U.S. VI and Guam Supplements = $150,000 each
Current Designation with Percentage Reduction

5th year Extension

New Award Values

Designated Consortia = $714,400
Non-Designated Consortia = $535,800

<table>
<thead>
<tr>
<th>Budget Guideline</th>
<th>$40,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>*House Markup</td>
<td>$34,112,600</td>
</tr>
<tr>
<td>Awards</td>
<td>$34,112,600</td>
</tr>
<tr>
<td>Non-Awards</td>
<td>$5,887,400</td>
</tr>
<tr>
<td>Balance</td>
<td>$0</td>
</tr>
</tbody>
</table>
Grant making agencies are being encouraged to increase competitive components of its program management.

Similar to equal funding with reduced values for base award funding:
- Everyone receives the same base award
- The balance is given as competitive award

### Competitive Opportunities

<table>
<thead>
<tr>
<th>Base award</th>
<th>Number of awards</th>
<th>Total Award Value</th>
<th>Available for Awards</th>
<th>Number of $800,000 awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>$600,000</td>
<td>52</td>
<td>$31,200,000</td>
<td>$2,407,000</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: Does not include U.S. VI and Guam
## Population-Based

### Funding Structure (no Guam and U.S. VI)

<table>
<thead>
<tr>
<th>Population Bins</th>
<th>Number of Awards</th>
<th>Base Award</th>
<th>Population Supplement</th>
<th>New Award Value</th>
<th>New Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>High pop &gt;10M</td>
<td>9</td>
<td>$550,000</td>
<td>$225,000</td>
<td>$775,000</td>
<td>$6,975,000</td>
</tr>
<tr>
<td>Middle pop &lt;10M and &gt;4M</td>
<td>18</td>
<td>$550,000</td>
<td>$150,000</td>
<td>$700,000</td>
<td>$12,600,000</td>
</tr>
<tr>
<td>Low pop &lt;4M</td>
<td>25</td>
<td>$550,000</td>
<td>$50,000</td>
<td>$600,000</td>
<td>$15,000,000</td>
</tr>
</tbody>
</table>

**Grand Total** $34,575,000

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### Space Grant FY2019 Population-Based (no Guam and U.S. VI) Funding Levels

<table>
<thead>
<tr>
<th>Budget Guideline</th>
<th>$40,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>House Markup</td>
<td>$34,575,000</td>
</tr>
<tr>
<td>Awards</td>
<td>$5,887,400</td>
</tr>
<tr>
<td>Balance</td>
<td>(462,400)</td>
</tr>
</tbody>
</table>

Net reduction in awards = $1,715,000
Population Based Funding Structure

Does not include U.S. VI or Guam as separate Consortia
Proposed Population-Based Funding Impacts

Does not include U.S. VI or Guam as separate Consortia

Proposed Award Value Changes:
- 9 Designated – $15,000 more
- 4 Non-designated – $130,000 more
- 13 Non-designated – $30,000 more
- 12 Designated – $160,000 less
- 14 Designated – $60,000 less
### Space Grant
#### FY2019 45 Designated/7 Non-Designated (no Guam and U.S. VI)
#### Funding Levels

<table>
<thead>
<tr>
<th>Budget Guideline <em>House Markup</em></th>
<th>$40,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awards</td>
<td>$34,140,000</td>
</tr>
<tr>
<td>Non-Awards</td>
<td>$5,860,000</td>
</tr>
<tr>
<td>Total</td>
<td>$40,000,000</td>
</tr>
<tr>
<td>Balance</td>
<td>$0</td>
</tr>
</tbody>
</table>

- After competitive selection for graduation to Designated Status
- 45 Consortia (35 Designated and 10* new Designated) at $670,000
- 7 Consortia remain Non-Designated at $570,000

*NOTE: 10 was for illustrative purposes only; not an actual target*
Questions & Answers

Please go to this website to ask questions:

jsc.cnf.io
Welcome to the New Space Grant Directors!

Tomas Gonzalez-Torres  
Director, Iowa Space Grant Consortium

Pauolo Oemig  
Director, New Mexico Space Grant Consortium

Mark Moldwin  
Director, Michigan Space Grant Consortium
Program Updates
Special Topics
Roles

- 2 Types of specialists within Space Grant Program Execution
  - Space Grant Specialist (Identified on the following slides)
    - Provides connections to Center capabilities (Aeronautics, Rocketry, Science, Human Spaceflight, etc.)
    - Review of solicitations and annual performance documentation
    - Perform site visits
  - Space Grant NIF Specialist (Will be hosted at LaRC and JSC)
    - Assist Center(s) to identify promising matches to aid SG student selection.
    - Coordinate with USRA to ensure timely dissemination of pertinent information to the Consortia (e.g., deadlines, major changes to the application system, funding concerns, housing info, etc.)
    - Facilitate on-boarding process at Centers without NIF support based on availability of Center internship coordination support (previously funded by OE).
The Team at NASA Centers and Headquarters

<table>
<thead>
<tr>
<th>Center Space Grant Specialists</th>
<th>Program Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRC  Dave Berger</td>
<td>HQ  Joeletta Patrick</td>
</tr>
<tr>
<td>ARC   Braxton “William” Toy</td>
<td>LaRC Erica Alston, PhD</td>
</tr>
<tr>
<td>GRC   Dave Kankam, PhD</td>
<td>HQ  Sonya L. Greene, PhD</td>
</tr>
<tr>
<td>GSFC  Raquel Marshall</td>
<td>HQ  Frank McDonald, PhD</td>
</tr>
<tr>
<td>JPL   Linda Rodgers</td>
<td>HQ  Michael Cherry</td>
</tr>
<tr>
<td>JSC   Misti Moore</td>
<td>HQ  Kim Butler</td>
</tr>
<tr>
<td>KSC   Theresa Martinez</td>
<td></td>
</tr>
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<td>LaRC  Gina Blystone</td>
<td></td>
</tr>
<tr>
<td>MSFC  Mona Miller</td>
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<td>SSC   Mitch Krell, PhD</td>
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Space Grant Regions – Consortia Created
Space Grant NASA Center Contacts

![Map of the United States with states color-coded by NASA regions.]

**Space Grant Center Assignments**
- Each center has between six and nine states. These states likely do not match center regions which were based on K-12 needs.

**Center Assignments:**
- ARC - Toy
- LaRC - Bystone
- KSC - Martinez
- SSC - Krell
- MSFC - Miller
- JSC - Moore
- GRC - Kankam
- AFRC - Berger

---

STEM INSPIRE - ENGAGE - EDUCATE - EMPLOY
The Next Generation of Explorers
Program Updates

Special Topics
5th-yr Extension Solicitation

- We released a 5th year extension solicitation to the base award in early September 2018
  - Timeline:
    - **Release**: September 4, 2018
    - **Pre-Solicitation Conference**: Early October 2018
    - **Proposals Due**: November 6, 2018
    - **Reviews**: November – December 2018
    - **Notifications**: Late January 2019
- Major changes:
  - Periods of Performance
  - Student award values
Evaluation - NASA Space Grant Assessment by Abt Associates, Inc.

<table>
<thead>
<tr>
<th>Task</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Refine assessment questions</td>
<td>Completed</td>
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<tr>
<td>Conduct initial stakeholder focus groups (directors, affiliates, foundation)</td>
<td>Completed</td>
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<tr>
<td>Develop a high-level, interim findings memo (from initial focus groups)</td>
<td>Completed</td>
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<tr>
<td>Complete stakeholder focus groups (included 20 directors, 22 affiliates, 3 foundation members)</td>
<td>Completed</td>
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<tr>
<td>Analyze Space Grant Data extant data</td>
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<tr>
<td>Analyze full set of focus group data</td>
<td>Ongoing</td>
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<tr>
<td>Draft final report</td>
<td>Ongoing</td>
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<td>Finalize final report</td>
<td>Ongoing</td>
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<tr>
<td>Present findings to NASA</td>
<td>Ongoing</td>
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</tbody>
</table>
6 proposals submitted – WA, ID, ND, NE, OH, & VA
Space Law Award Recommendation

- Select Nebraska Space Grant the Space Law Augmentation – Strongest proposal that will impact the Space Law Community the broadest
- Period of Performance will run concurrently with the awarded 4th year extension
- The 5th year extension will provide additional time to perform proposed activities if the proposal is selected for funding

<table>
<thead>
<tr>
<th>Institution</th>
<th>PI</th>
<th>Proposal Title</th>
<th>Partners</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Nebraska at Omaha</td>
<td>Scott Tarry</td>
<td>Creation of a Nationwide Space Law Network (SLN): Proposal to Enhance, Diversify and Strengthen the Space Law Community Through Network of Law</td>
<td>University of Nebraska College of Law's Space, Cyber, and Telecom Law Program</td>
<td>$250,000</td>
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</table>
Space Grant Communications IPA Update

• Susie Johnson (Idaho) and Colleen Fava (Louisiana)
  – Tentative start date is October 2018
  – Deliverables:
    • A year in review for Space Grant
    • Communication plan for ARCD for internal and external audiences
  – Kick Off Meeting will be in October 2018
SREB Sponsorship

• Pilot partnership activity between Space Grant and MUREP for graduate students to attend:
  – **Event**: Southern Regional Educational Board (SREB) Teaching and Mentoring Conference
  – **Dates**: October 25-28, 2018
  – **Location**: Arlington, VA at the Marriott Crystal Gateway
  – **Eligibility**: Historically underrepresented and underserved graduate students in STEM
SREB Sponsorship Selections

Savannah Cuozzo – VA SGC
College of William and Mary

Ahmer Mohammad – VA SGC
Virginia Tech

Thihan Gamalathge – NV SGC
University of Nevada at Reno

Seema Mallavelli – LA SGC
University of Louisiana at Lafayette

Irivette Dominguez Martinez – PR SGC
University of Puerto Rico

John Middlebrooks – MO SGC
University of Missouri

Liz Santiago Martoral – PR SGC
University of Puerto Rico

Anthony Millican – VA SGC
Virginia Tech

Kreston Barron – GA SGC
Georgia Tech

Not Pictured:
Isabel Rodriguez – OR SGC
University of Oregon

Jemilia Polius - AL SGC
Alabama A&M U.
Questions & Answers

Please go to this website to ask questions:

jsc.cnf.io
OEPM Discussion
USIP Update
## FY2017 OEPM Performance Data

### Data reliability concerns

<table>
<thead>
<tr>
<th>Elementary School Students</th>
<th>Middle School Students</th>
<th>High School Students</th>
<th>Community College</th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Post-Doc</th>
<th>Total</th>
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<tr>
<th>Elementary School Teachers</th>
<th>Middle School Teachers</th>
<th>High School Teachers</th>
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<th>Administrators</th>
<th>Informal Educators</th>
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**Blue**: February 23, 2018 Spreadsheets Data Call  
**Green**: June 31, 2018 OEPM Data Call  
**Yellow**: Delta Between Data Calls
FY2018 OEPM Reporting

Due date: **January 31, 2019**

- **OEPM Currently Open for Reporting** (October 1, 2017 – January 31, 2019)
- Reporting Period: Fall 2017, Spring 2018, Summer 2018
- Submissions received after this deadline will not be included in Program wide rollup
  - Violation of grant reporting requirements.
  - **Form-1687: Provisions and Special Conditions**  
    “Awardees are required to submit annual reports 60 days prior to the anniversary date of the grant and Office of Education Performance Measurement (OEPM) data is also due annually. The due dates and guidance for OEPM submissions will be disseminated via the Space Grant HQ program office.”
  - Note: Failure to submit on-time reporting can lead to a hold being placed on program funds.
• Call for data will likely come in the November/December timeframe.

• List of MSI’s will be provided to the Office of STEM Engagement by the Department of Education.

• Requesting feedback on all NASA $ that went to any of the schools on the list, broken down by category.
OEPM Training

Contact me an email if you are interested in OEPM training:

Michael.R.Cherry@NASA.gov
202.358.0347
OEPM Discussion
USIP Update
USIP Status

• USIP Goal
  • The intent of the USIP SFRO is to provide undergraduate students in the Space Grant community with an opportunity to work with subject matter experts and gain hands-on experience in bringing a suborbital-class platform to a point of launch readiness.

• Project Status
  • 6 of 39 projects have flown

• Project Plan – FY19
  • Expect 31 projects to be flight ready in FY19

• 37 (95%) of projects have met the intent of the project goal

• FY19 will be the Wrap and Final Year
  • Last project has a expiration date of June 2019
    • Close out report within 90 days of end date(September 2019)
## Undergraduate Student Instrument Project (USIP)
### Period of Performance Schedule vs. Projected Flight Readiness
**as of 9/11/18**

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</table>

- **Launched**
- **Period of Performance (POP)**
- **Flight Ready**
- **POP Expiration Close to Flight Readiness Date**

---

**Launched** states have completed their period of performance and are ready for flight.

**Period of Performance (POP)** states are currently in their period of performance and are not ready for flight.

**Flight Ready** states are ready for flight and have passed their flight readiness date.

**POP Expiration Close to Flight Readiness Date** states are close to their flight readiness date and may require additional time to become flight ready.

The table above shows the status of each state in terms of their period of performance and projected flight readiness dates as of 9/11/18.
Internship Update

Questions and Answers
NASA Internships Update

Stipend Increase (excerpts from AA’s Letter, May 9, 2018)

- “According to feedback, NASA is losing its ability to attract excelling interns because our efforts are not competitive.”

- “For the past five years, NASA has maintained the same level of stipends for its interns.”

- “Our office modifying the Internship price structure to be more competitive and to better attract the interns out mentors seek.”

- “Stipend increase began Fall 2018 that will directly benefit student stipends to allow NASA to better compete with private industry and other agencies.”

- Stipends are as follows …
  - Fall/Spring 16 weeks
    - UG $11,680
    - Grad $14,400
  - Summer 10 weeks
    - UG $7,300
    - Grad $9,000
New System Capabilities

• Third Party Portal now in development. Goal is to have it available for summer 2019 placements.

• Students can create a profile, apply and search for opportunities in open sessions 24/7

• Currently, spring, summer and fall 2019 is open for students to apply. They simply choose their availability.

• Space Grant Consortiums can announce to students to apply NOW for time periods of preferred internship placements.
  – May affect your consortium’s process in a variety of ways
  – Now able to get ahead of the game with applicants
  – Aid in gaining a more diverse, better-qualified applicant pool and selections
  – You can capitalize on maximizing your internship placements on your schedule
### NASA Internships Update

**Transition Processes for Space Grant**

<table>
<thead>
<tr>
<th>Process</th>
<th>Prior to Nov 2018</th>
<th>After Nov 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student applications</td>
<td><a href="https://intern.nasa.gov">https://intern.nasa.gov</a> • Complete/update application • Indicate availability of open sessions</td>
<td><a href="https://intern.nasa.gov">https://intern.nasa.gov</a> • Complete/update application • Indicate availability for open sessions</td>
</tr>
<tr>
<td>Placement coordination</td>
<td>Email internship coordinator at center(s) • Notice of intent to sponsor students [include session, academic level(s), etc.] • List of preferred applicants, if known</td>
<td>Third party portal in new NASA internship system (<em>anticipated to be available in Nov 2018</em>)</td>
</tr>
<tr>
<td>Applicable sessions</td>
<td>Spring, Summer, Fall 2019</td>
<td>Summer 2019 and beyond</td>
</tr>
</tbody>
</table>
Internship Update

Questions and Answers

Please go to this website to ask questions:

jsc.cnf.io
Backup Slides
Histogram of State Populations

Frequency

Bin

<5M | 5-9M | 10-14M | 15-19M | 20-24M | 25-29M | 30M +

Frequency
## Proposed Population-based Funding by State

<table>
<thead>
<tr>
<th>State</th>
<th>Proposed Award Value</th>
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<td>$600,000</td>
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</table>

26 Impacted previously Designated States
14 will decrease by $60,000
12 will decrease by $160,000

### Funding Changes
- **Non-designated:** Increased by $30,000
- **Non-designated:** Increased by $130,000
- **Designated:** Increased $15,000
- **Designated:** Decreased by $60,000
- **Designated:** Decreased by $160,000