National Council of Space Grant Directors' Meeting

2016 Regional Meetings

NASA Headquarters Space Grant Program Office

#JOURNEYTOMARS

Lenell Allen, Ph.D.

Overview – Discussion Topics

- Introduction of Aerospace Research and Career Development (ARCD) Staff and NASA Representatives
- Government Accountability Office (GAO) Report – (GAO-16-362)
- NASA's Office of Inspector General Report – (IG-14-014)
- Fiscal Climate: FY2017
- On the Horizon
  - National Evaluation Update
  - New Base Award Solicitation Update
- NASA Center Internship Placement – SG Program Office Response to Feedback
- Undergraduate Student Instrument Project (USIP) Update
- Program Policy Updates – No Cost Extensions (NCEs), Drawing Down Funding from NASA and Cost Share Guidance
- Space Grant 2015 Office of Education Performance Measurement (OEPM) Data
- FY2018 Fall National Meeting and FY2019 Fall Regional Meetings Dates
- Space Grant New Directors and Proposed Interim Directors
- Dr. Victoria Duca-Snowden Tribute – Oklahoma Space Grant Director (1990-2016)

Aerospace Research & Career Development Staff

- **Space Grant:**
  - Dr. Lenell Allen – Program Manager
  - Ms. Kim Butler – Office of Education Budget Analyst
  - Mr. Michael Cherry – Program Analyst (Valador)
  - Mrs. LaTeicia Ford – Program Analyst & Grant Specialist (Valador)
  - Dr. Sonya L. Greene – Senior Program Analyst (Valador)
  - Dr. Frank McDonald – Senior Program Analyst (Valador)
  - Dr. M. Warfield Teague – Senior Program Associate (Valador)

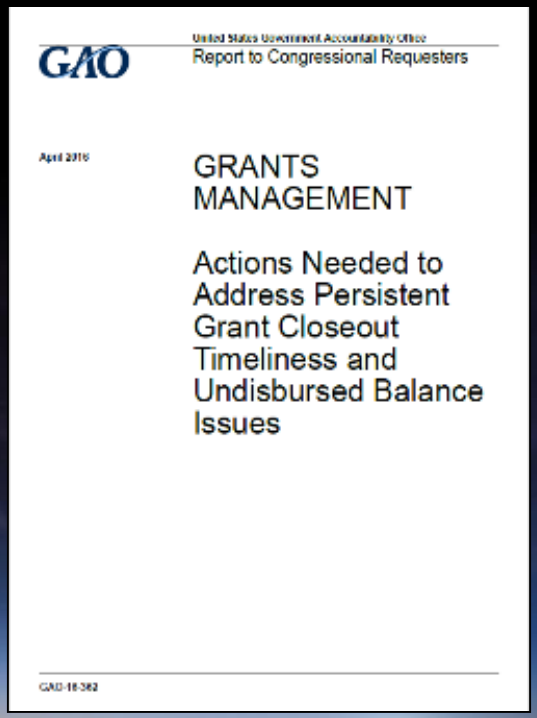
- **Experimental Program to Stimulate Competitive Research (EPSCoR):**
  - Mr. Jeppie Compton – Project Manager (KSC)
  - Ms. Crystal Bassett – Program Coordinator (KISS III, KSC)

Government Accountability Office (GAO) Report

Government Accountability Office (GAO) Report:

– ***Grants Management: Actions Needed to Address Persistent Grant Closeout Timeliness and Undisbursed Balance Issues*** **– (GAO-16-362, April 2016)**

http://www.gao.gov/assets/680/676558.pdf



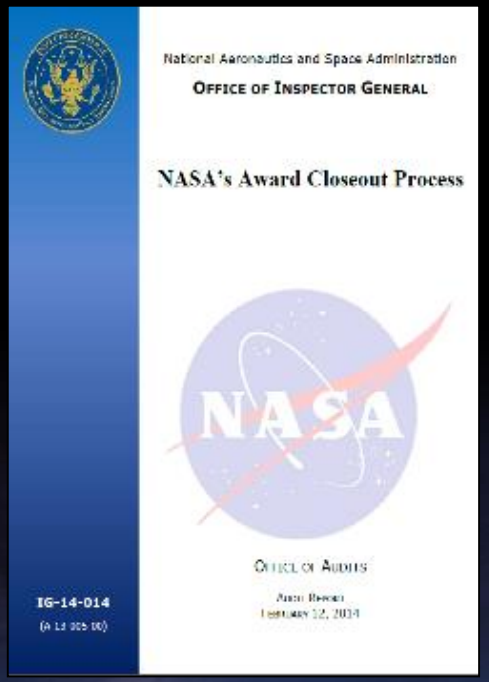
- At the end of fiscal year FY2015, approximately **$994 million in funded remained in expired grant accounts** in the Payment Management System (PMS), operated by the Department of Health and Human Services (HHS).
  - PMS identifies expired grant accounts for users as those accounts more than three months past their grant end date that have not had payment activity for 9 months.
  - Federal Agencies incurring unnecessary service fees associated with expired grants.
  - Closing out grants in a timely manner could allow an agency to deobligate undisbursed grant funds and to redirect resources toward other projects and activities.

NASA's Office of Inspector General Report

NASA's Office of Inspector General Report:

– ***Grants NASA"s Award Closeout Process*** **– (IG-14-014, February 2014)**

https://oig.nasa.gov/audits/reports/FY14/IG-14-014.pdf



- NASA generally deobligates unused funds in a timely manner. However, end of fiscal year FY2012 approximately **$44 million** in expired grants could have been deobligated and redirected toward other projects and activities.
- Approximately $170,000 in unnecessary service fees.

Additional Audit Guidance

- Work closely with your Office of Sponsored Programs (OSP) staff and NASA Shared Service Center (NSSC) staff to ensure that your SG Consortia is in compliance with appropriate "Close-Out" Processes.

Fiscal Climate: FY2017

Continuing Resolution (CR) Until December 9, 2016

- FY2017 funding will be at the FY2016 Appropriation level during the CR.
  - Space Grant: $40M
  - EPSCoR: $18M
- Waiting on NASA Appropriation for the final FY2017 Space Grant and EPSCoR Budgets

On the Horizon

- **Space Grant "External Evaluation" Update**
  - **"Interim Report" – 2nd Quarter of FY2017**
- **Space Grant "New Base Award" Solicitation**
  - **Anticipated Release Date – 4th Quarter of FY2017**

- **OSSI Internship Application Deadlines:**
  - **Session: Spring 2017 - October 17, 2016**
  - **Session: Summer 2017** - Opens October 18, 2016 - Closes March 1, 2017
- **All Space Grant funded internships at NASA Centers should be placed through the OSSI system for tracking and monitoring purposes.**

NASA Center Internship Placements
Response to Feedback

- **The feedback received from the Space Grant 2016 Internships Survey was reviewed by both the Space Grant and IT team. Three major areas of concern noted:**

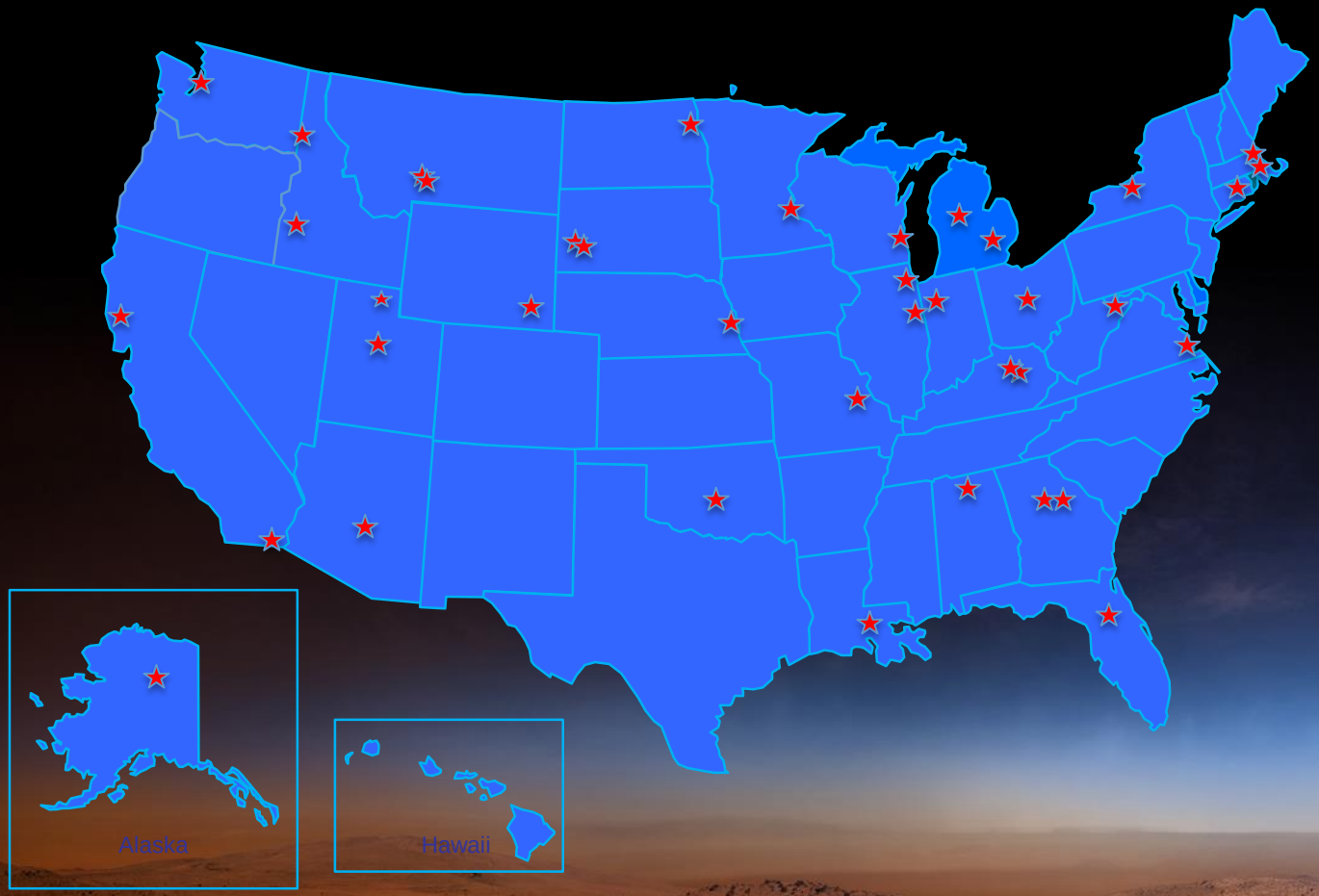
- **Application Deadline/Selection Timing**
  - Application will open earlier for Summer 2017 (October 17th, 2016) to enable more time for placement and selection to occur.
    - **The deadline will remain March 1st, but placements can be made prior to the deadline date.**

- **Communication**
  - Notification issues at each step in the process between all stakeholders—**most feedback was in this category.**
  - In response – the IT team has worked with the Space Grant team to create new reports that will assist in providing notification, placement and status updates of student applicants.
  - Due to Security requirements, we are working with the IT/Security team to grant our community appropriate access to the new reports.
  - These reports will address many of the communications concerns raised in the feedback

- **Process**
  - Current OSSI system is still being utilized
  - No major changes can be made to the current OSSI system at this time
    - A new application portal is in the works.
    - Revised Timeline with process that will be used for Summer 2017 will be sent out soon.
    - Emphasis will be placed on the **Pre-Identification** phase so that SG's can let the centers know early whom they would like to fund.

Space Grant Geographic Distribution of Undergraduate Student Instrument Project (USIP) Awards

Investment
~$7.6 million
- 39 Projects



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USIP Status

- **Project Initiation Conferences**
  - September (Official Kick-off)
  - Science Mission Directorate (SMD) Education Public Outreach (EPO) - Communication

- **Dissemination of Project Information**
  - SG projects' alignment with NASA's Vision and Office of Education goals
  - Schedules vary by platform type
    - CubeSats
    - Balloons
    - Sounding Rockets
    - Unmanned Aircraft Systems (UAS)
    - Suborbital Reusable Launch Vehicles (sRLV)
  - Conferences/Publications-exploration

Space Grant Opportunities in NASA STEM (3-year training grant)

- Annual Performance Document (APD) due 60 days prior to the anniversary of the grant start date.
- Guidance for APD submissions will be released from the NASA Program Office in the December/ January time frame. Consortia will have the opportunity to submit questions to the NASA Program Office.
- The reporting structure will be the same as FY 2015 APDs. However, consortia will report on activities funded with BASE and AUGMENTATION funds this year. Last year consortia only reported on activities funded with base award funds.

Drawing Down Funds from NASA

- The NASA Shared Services Center (NSSC) will be closely monitoring the frequency of drawing down or invoicing grant funds.
- Lead institutions must work closely with affiliate institutions and sub-contractors to have timely invoicing of project activities and labor.
- The NSSC reserves the right to place a hold on financial accounts with large balances and no explanation for delays in drawing down funds.
- The success of timely drawdowns of money is highly dependent on every collaborator in the consortium contributing to the overall success of the financial and grant reporting process.

Cost Share

- The agency is working on improvements in verifying and validating cost-share.

- Grantees shall document types of cost-share contributed to Space Grant awards at the lead and affiliate institutions.

Types of Cost Share

- **In-kind** – This is a contribution from a third party. Validation of in-kind cost-share requires documentation from the third party.
- **Matching** – These are hard dollars, funds, cash specifically designated for allocation to a project.
- **Contributed Effort** - Faculty and staff labor funded by non-sponsor sources (i.e. institution) on behalf of a sponsored project.
- **Donated/Volunteer Services** - Effort/ services given to a project that has a value but is provided as a free contribution.
- **Unrecovered Indirect Costs** - The difference between the institution's negotiated indirect cost (IDC) rate and the rate allowed by the sponsoring agency. It's also referred to as "waived IDC".

No-Cost Extensions (NCE)

- **Officially request NCEs here:** https://www.nssc.nasa.gov/nocostextension

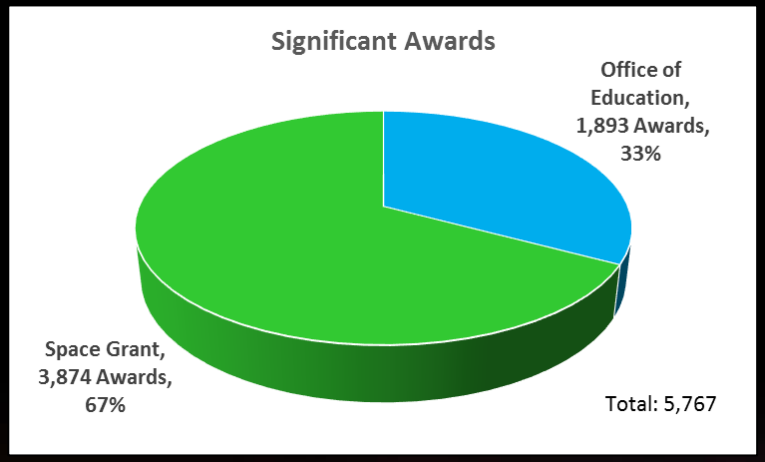
- Consortia that request 2nd NCEs will be under increased scrutiny and will likely have to submit a detailed justification or mitigation strategy for severely delayed projects.

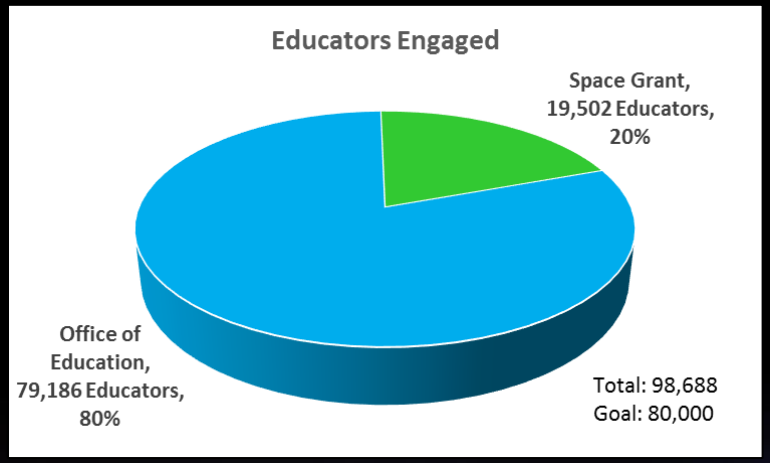
Space Grant Contribution to OE FY2015 API's

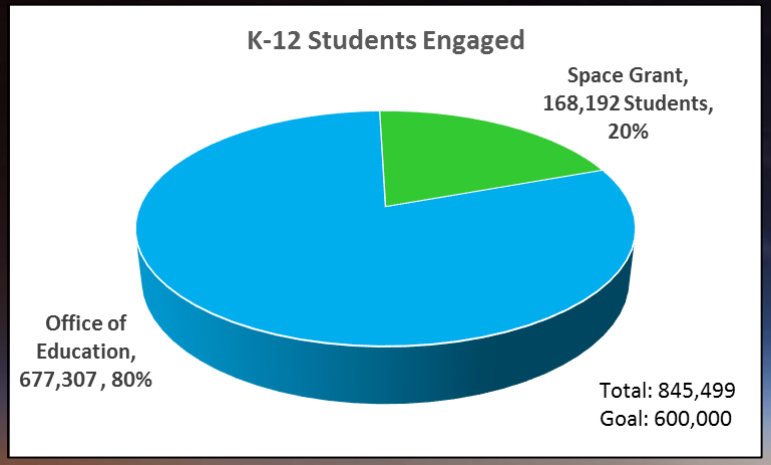
Annual Performance Indicator (API)	Office of Education Result	Space Grant Result	Space Grant Contribution to the OE Result
Provide significant, direct student awards in higher education to (1) students across all institutional categories and levels (as defined by the U.S. Department of Education); (2) racially or ethnically underrepresented students, (3) women, and (4) persons with disabilities at percentages that meet or exceed the national percentages for these populations, as determined by the most recent, publicly available data from the U/S/ Department of Education's National Center for Education Statistics for a minimum of two of the four categories.	5,767 Significant Awards	3,874 Significant Awards	67%
Engage with at least **80,000** educators in NASA- supported Professional development, research, and internships that use NASA-unique STEM content.	98,688	19,502	20%
Maintain the NASA Museum Alliance and/or other STEM education strategic partnerships in no fewer than 30 states, U.S. territories, and/or the District of Columbia.	52 U.S. States and Territories	52 U.S. States and Territories	Met
Engage with at least **600,000** elementary and secondary students in NASA STEM activities.	845,499	168,192	20%

Note: NASA Education reports on prior year data. Data are based on the 2013–2014 academic calendar (Year 5 of FY2010 Awards).

Space Grant Contribution to OE FY2015 API's







Note: NASA Education reports on prior year data. Data are based on the 2013–2014 academic calendar.

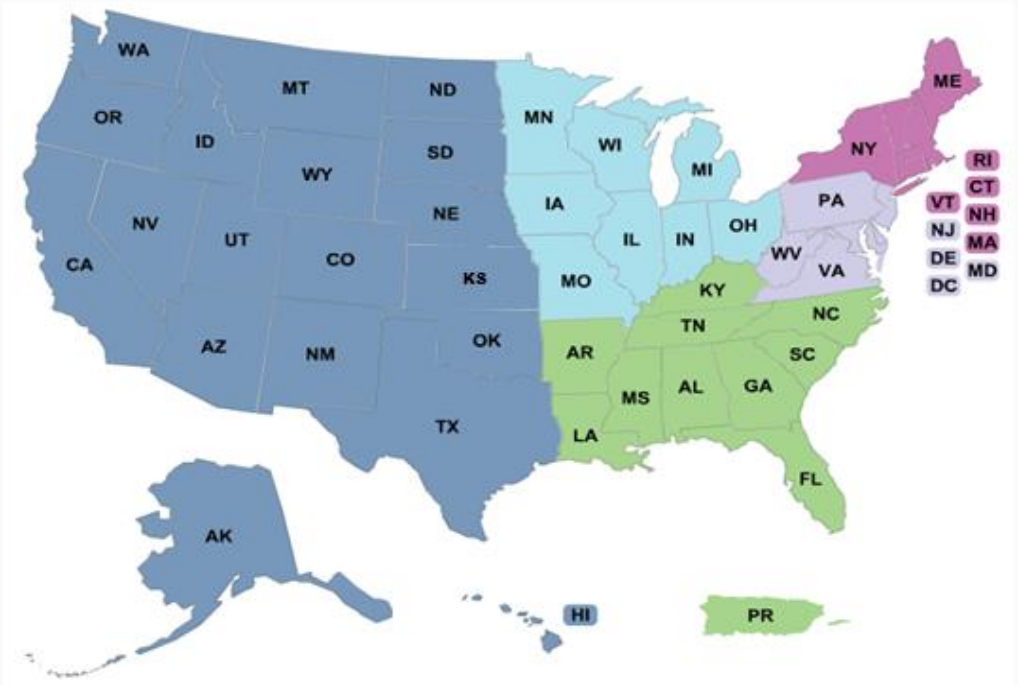
Women and Underrepresented Students FY2015 OEPM Data

Minority Students (as a subset of all Significant Awards)	Office of Education Result	Space Grant Result
FY2015 Female Student Significant Awards	38%	38%
FY2015 Underrepresented Student Significant Awards	26%	22%

Note: NASA Education reports on prior year data. Data are based on prior year academic calendar.

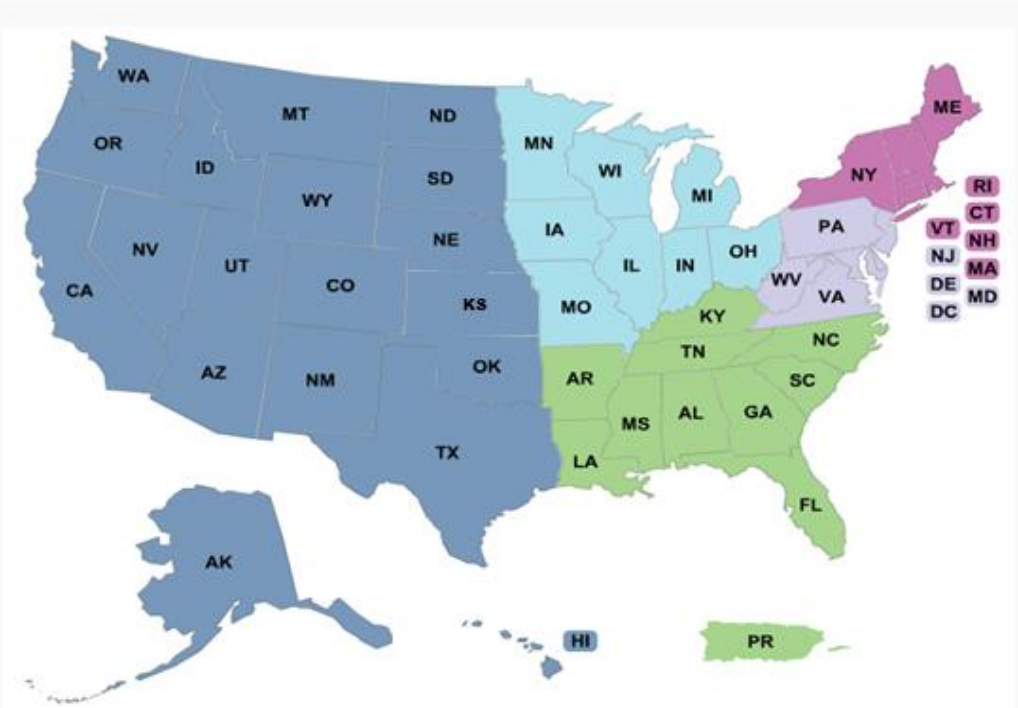
For individual state statistics, please follow this link:
https://nces.ed.gov/programs/digest/d13/tables/dt13_306.60.asp

Space Grant 2018 Fall National Meeting



- **Options – Three September Dates (Thursday-Saturday) (Sept. 13-15) – (Sept. 20-22) – (Sept. 27-29)**
- **Location To Be Determined**

Space Grant 2019 Regional Meetings



- **Mid-September through Mid-October Dates (Thursday-Saturday)**
  (Sept. 12-14) – (Sept. 19-21) – (Sept. 26-28) – (Oct. 3-5) – (Oct. 10-12)
- **NASA Space Grant Program Office recommends no overlap in dates for Space Grant Consortia Regional Meetings**

Space Grant Directors Changes

Since the Spring 2016 Meeting in DC
Four SG Director Changes:

New Shoes to fill……..

- **In Place:**
  - Delaware
  - Iowa
  - North Dakota
  - Ohio
- **Near Future:**
  - Minnesota
  - Oklahoma
  - Texas

Delaware Permanent Director: Dr. William (Bill) Matthaeus

Professor, Physics and Astronomy, University of Delaware

- BA 1973, University of Pennsylvania, Philadelphia, PA, majors in Physics and in Philosophy.
- MA in physics 1975, Old Dominion University, Norfolk, VA.
- MS in physics 1977, College of William and Mary, Williamsburg, VA.
- Ph.D. in physics 1979, College of William and Mary, Williamsburg, VA.

Research Interests

- MHD Turbulence
- Kinetic Theory
- Swarthmore Spheromak Experiment
- High Performance Scientific Computing

Iowa Permanent Director: Dr. Richard Wlezian

Endowed Department Chair
Aerospace Engineering, Iowa State University

- Ph.D. Mechanical and Aerospace Engineering, Illinois Institute of Technology, 1981
- M.S. Mechanical and Aerospace Engineering, Illinois Institute of Technology, 1976
- B.S. Mechanical and Aerospace Engineering Illinois Institute of Technology, 1974

Research Interests:

- Sensitivity of crossflow transition on swept-wing flows
- Remote modification of airfoil boundary layer using laser-induced plasmas
- Active control of virtual leading-edge slats
- Characterization of trailing edge boundary layer structure

North Dakota Permanent Director: Dr. James Casler

Department Chair, Space Studies
University of North Dakota

- PE, Registered Professional Engineer in North Dakota, South Dakota and Maryland
- Ph.D., 2000, Engineering, North Dakota State University
- M.S., 1977, Aeronautical Systems, Univ. of West Florida
- M.B.A., 2006, Florida Institute of Technology
- B.S., 1970, Engr. Physics, South Dakota State University

Professor, Chair- Department of Space Studies

Research Interests

- Human performance in space-based manufacturing settings
- Mining and manufacturing, operations on the surfaces of the Moon and Mars.

Ohio Permanent Director: Dr. Jed Marquart

Professor of Mechanical Engineering

Ohio Northern University

- PE, Registered Professional Engineer in Ohio
- PhD., Aerospace Engineering, University of Dayton, 1996
- MSAE, Aerospace Engineering University of Dayton, 1988
- BSME, Mechanical Engineering, Ohio Northern University, 1980

Research Interests:

- Finite element analysis of biomedical and aerospace parts/structures
- Finite element analysis of piping systems
- CFD analysis of turbomachinery
- CFD and FEA analysis for aircraft design

Dr. Victoria Duca Snowden

Dedicated to Space Grant and education her whole career:

Ed.D Aerospace Education

M.A. Learning Disabilities

B.S. Elementary Education

1991-2016 Oklahoma Space Grant Consortium: Director

1985-1990 US Space Foundation: Director of Education

1974-1985 Denver Public Schools: Teacher

- Founder of the NASA OSGC
- One of three original women Space Grant Directors
- Originator of OSGC -› NASA Center fellowship program as a way to provide more opportunities for underrepresented students to work at NASA.
- Instituted novel approach to funding and interaction in order to maximize affiliate participation.
- Private Pilot

So much *impact* on so many lives…

- Over 2,500 scholarships and fellowships to students
- Record of diversity with over 30% underrepresented groups
- Hundreds of in/pre service teachers trained per year
- Genuine involvement and participation from affiliates all over the state
- Average of over 60 programs/year
- All done with love, and a sense of humor
- The entire OSGC will deeply miss our colleague, mentor, and friend.

Questions