IOWA SPACE GRANT CONSORTIUM
Program Overview
Great Midwestern Regional Space Grant Meeting
October 7, 2016
Iowa Space Grant Consortium

• Mission is to coordinate and improve Iowa's future in aerospace science and technology throughout the state.
• 18 affiliates from academia, industry, government, and outreach
• Provide funds - 1. Internships / Fellowships / Scholarships, 2) Research Infrastructure, 3) Higher Education, 4) Precollege, and 5) Informal Education
• Dollar to dollar match required (excluding fellows/scholars)
• Managed by ISGC Executive Committee
Leadership Team

• Richard Wlezien, Director
• Jay Staker, Associate Director
• Carmen Fuchs, Program Coordinator
Statement of Principles

- Students First
- Open and Transparent Competition
- Alignment with NASA Mission
- Collective Pride in Achievements
New Website

- New simplified focus
  - Who we are
  - How do you get funded?
  - What has everyone accomplished?

- New site will go live shortly
Better Visibility for Affiliates
<table>
<thead>
<tr>
<th>Government Affiliates</th>
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<tbody>
<tr>
<td><strong>Ames Lab., U.S. DoE</strong></td>
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<tr>
<td>Thomas Lograsso</td>
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<td><strong>Iowa Dept. of Education</strong></td>
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<tr>
<td>Kris Kilibarda</td>
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<td><strong>Iowa DNR/Geological Survey</strong></td>
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<td>Robert D. Libra</td>
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<td><strong>Iowa DOT – Office of Aviation</strong></td>
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<td>Tim McClung</td>
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<td><strong>National Lab for Agriculture and the Environment</strong></td>
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<td>Jerry Hatfield</td>
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Outreach Affiliates

Grout Museum District
Jordan Walker

Iowa Academy of Science
Craig Johnson

Iowa Aviation Promotion Group
Chuck McDonald

National Mississippi River Museum and Aquarium
Erin Dragotto

Putnam Museum
Kim Findlay

Science Center of Iowa
Curt Simmons
Industrial Affiliates

Aerodyne Labs
Jennifer Nelson

Rockwell Collins
Alan Tribble

Softronics, Ltd.
Robert Stemowski
Funded Program Activities

1. Internships / Fellowships / Scholarships
2. Higher Education
3. Research Infrastructure
4. Precollege Education
5. Informal Education
2a. Internships

- Nationally competed and requested by NASA Centers
- Can be industrial internship at an industrial affiliate
2b. Scholarships

- 38 competed plus 1 science fair scholarship
- 84 applications
- Applicant mentors were asked to review proposals
- Director and Associate Director also reviewed
2c. Fellowships

- Two rounds of competition completed, reviews pending
  1. 71 total applicants, 16 to be awarded
  2. Awards will be $2.5k per student, and require that the student have other support funding (TA and/or RA)
  3. These funds require matching
3a. Higher Education
Curriculum Development

- Five projects at $5,000 will be funded through a new competition, reviews are pending
- Develop or utilize innovative approaches to improve science, (STEM) learning and instruction
- Project based course development, capstone courses, and curriculum or course redesign
- Provide experiences that will equip the future STEM workforce for careers important to NASA
- One specific project for preservice STEM education course
3b. Higher Education
Students Hands-On Projects

- Student projects with a faculty or staff advisor
- Maximum funding per proposal is $7.5k. Can be used for supplies, travel, and similar expenses. Not for salaries or stipends.
- Competition is open and will remain open until funds are consumed
3c. Higher Education Scholarship Mentor Support

- Nominal support to research mentors
3d. Higher Education Iowa-wide

- State-wide program: Higher education collaborations
- Innovative programs to leverage the expertise of the proposing affiliate
- Must be cooperative efforts between at least two affiliates to broaden the effort
- Can target one or more of: preservice STEM education, informal education, or higher education
- Experiences to equip the future STEM workforce
- Ongoing competition with solicited proposals
4. Research Infrastructure

Research Innovation

• Research innovation awards for travel to NASA centers, and activities supporting further interaction and collaboration

• New competition is open to all four academic affiliates
5. Precollege

- Leverage NASA education focus and inspiration
- Professional development (PD) for educators to improve STEM
- Support PD proposals for preservice and in-service educators (formal and informal)
- Support Iowa educator participation in NASA educator opportunities (Iowa Partner School)
- Support Iowa Academy of Science (IAS) for the Iowa Junior Academy of Science (IJAS) activities
6. Informal Education

- Informal education projects competitively awarded among the outreach affiliates - funding supports one project per year

- State-wide program option for informal collaborations
  - Informal affiliates would partner to develop a collaborative project
  - Project examples:
    - NASA-related exhibit development
    - Intern opportunities for STEM outreach from academic affiliates
Future Meeting Schedule

• Annual Consortium Conference (March 24, 2017)
  ➢ All awardees are expected to participate in “Space Grant Celebration”
  ➢ 8:00 a.m. – 2:00 p.m. will be sessions where awardees show their projects
  ➢ Awards luncheon
  ➢ 2:00 – 5:00 p.m. – Spring Affiliates Meeting
Web Presence

• All awardees and projects will be highlighted on the website

• All solicitations announced on web

• Communications Specialist and Program Coordinator will maintain the site
Questions for Region:

1. How do you manage your private institution affiliations?
2. Would you be interested in sending teachers to NASA MSFC?
3. If interested in Virtual Engineering for precollege, talk to me at the break.