2014 Consortium Meeting

California Space Grant Consortium

John Kosmatka, Director
Tehseen Lazzouni, Assistant Director
Becky Howard, Program Coordinator

Presented at:
University of California, Los Angeles
April 18, 2014
# Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Welcome and Introductions</td>
<td>John Kosmatka &amp; Chris Russell</td>
</tr>
<tr>
<td>10:10</td>
<td>NASA Centers Education Overview</td>
<td>Linda Rogers, Frank Pena</td>
</tr>
<tr>
<td></td>
<td>NASA-Jet Propulsion Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NASA-Armstrong Flight Center</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>State of the Consortium</td>
<td>John Kosmatka</td>
</tr>
<tr>
<td>11:00</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>Consortium-Wide Highlights and</td>
<td>Tehseen Lazzouni</td>
</tr>
<tr>
<td></td>
<td>CaSGC Headquarters Activities</td>
<td></td>
</tr>
<tr>
<td>11:45</td>
<td>Break and Networking (install Arduino Software)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project Presentations</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>PreCollege: Underrepresented STEM</td>
<td>Lily Gossage</td>
</tr>
<tr>
<td>12:30</td>
<td>Research: NASA Dawn Mission</td>
<td>Chris Russell</td>
</tr>
</tbody>
</table>
### Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>Lunch and Open Mic Session</td>
</tr>
<tr>
<td><strong>Project Presentations</strong></td>
<td></td>
</tr>
<tr>
<td>2:00</td>
<td>Higher Ed: San Diego MESA Alliance Research Academy &amp; Mentoring Chain</td>
</tr>
<tr>
<td>2:15</td>
<td>Precollege: Student Spaceflight Experiment Program</td>
</tr>
<tr>
<td>2:30</td>
<td>Student Poster Session</td>
</tr>
<tr>
<td>3:30</td>
<td>Upcoming Proposals and Consortium Activities</td>
</tr>
<tr>
<td>3:15</td>
<td>Meeting Summary and Open Discussion</td>
</tr>
<tr>
<td>3:45</td>
<td>Arduino Build Project</td>
</tr>
<tr>
<td>5:00</td>
<td>Adjourn</td>
</tr>
</tbody>
</table>
Participants (SoCal)

Affiliates and Partners:

Leslie Wickman
Don Edberg, Lily Gossage
Lucia Riderer, Dean Coco, Fadi Bakour
Jose Granda
Marianna O'Brien
Jayesh Bhakta, Michael Fernandez, Prasong Mahachitsattaya
Rafael Alvarez
Gustaf Jacobs
Diane Baxter
Catherine Shaffer
Christopher Russell, Richard Wirz, Vassilis Angelopoulos
Elizabeth Palmer, Marlene Patino, Ronald Powell,
Michaela Villarreal
Gamer Kesheshe, Benjamin Martins, Phuong Truong
James Wertz
Elizabeth Koltz

Azusa Pacific University
Cal Poly Pomona
Citrus College
CSU Sacramento
Lincoln Middle School
Los Angeles City College
San Diego City College
San Diego State University
San Diego Supercomputer Center
Santa Ana College
UC Los Angeles
UC San Diego
Univ of Southern California / Microcosm
University of Southern California

NASA Personnel:

Francisco Pena
Linda Rodgers
David H. Atkinson

NASA Armstrong Flight Research Center
NASA / Jet Propulsion Laboratory
NASA / JPL & University of Idaho

CaSGC HQ Personnel:

John Kosmatka, Tehseen Lazzouni, and Rebecca Howard
Participants (NoCal)

**Affiliates and Partners:**
Brian Kruse, Greg Schultz, Linda Shore  
Lily Gossage  
Ram Nunna, Gregory Kriehn  
Jose Hernandez  
Matthew Ringle (for Periklis Papadopoulos)  
Lynn Cominsky  
Patricia Dobson, Laura Peticolas, Bryan Mendez  
Susan Ustin, Pia van Benthem  
Enrico Ramirez-Ruiz  

**Astronomical Society of the Pacific**  
**Cal Poly, Pomona**  
**CSU Fresno**  
**Napa Valley College**  
**San Jose State University**  
**Sonoma State University**  
**UC Berkeley**  
**UC Davis**  
**UC Santa Cruz**

**NASA Personnel:**
Brenda Collins, Division Chief  
Maria Lopez  
Brenden Sanborn  
Thomas Clausen  
Vytas Sunspiral, Senior Robotics Researcher  

**NASA Ames Office Of Education**  
**Higher Education Program Specialist**  
**Informal Education Program Manager**  
**Precollege Officer**  
**NASA-Ames Dyn Tensegrity Robotics Lab**

**Students (several presenting posters):**
Gregory Dzhezyan, Christopher Livingston, Jonathan Meza, Gonzalo Leyva, Joshua Wenzel  
Timothy Shea  
Fernando Romero  
Benjamin Oakes, Jonathan Yee, Eric Gutierrez, Tim Wheeler  
Katherine Acord, Spencer Mathews, Johana Ramirez-Zapien  

**CSU Fresno**  
**CSU Sacramento**  
**Napa Valley College**  
**Stanford University**  
**UC Davis**

**CaSGC HQ Personnel:**
John Kosmatka and Tehseen Lazzouni
Program Schedule

10:00  Welcome and Introductions  John Kosmatka & Chris Russell

10:10  NASA Centers Education Overview
   NASA-Jet Propulsion Laboratory  Linda Rogers
   NASA-Armstrong Flight Center  Frank Pena

10:30  State of the Consortium  John Kosmatka
11:00  Discussion
11:15  Consortium-Wide Highlights and CaSGC Headquarters Activities  Tehseen Lazzouni

11:45  Break and Networking (install Arduino Software)

Project Presentations
12:00  PreCollege: Underrepresented STEM  Lily Gossage
12:30  Research: NASA Dawn Mission  Chris Russell
# Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Welcome and Introductions</td>
<td>John Kosmatka &amp; Chris Russell</td>
</tr>
<tr>
<td>10:10</td>
<td>NASA Centers Education Overview</td>
<td>Linda Rogers, Frank Pena</td>
</tr>
<tr>
<td>10:30</td>
<td>State of the Consortium</td>
<td>John Kosmatka</td>
</tr>
<tr>
<td>11:00</td>
<td>Discussion</td>
<td>Tehseen Lazzouni</td>
</tr>
<tr>
<td>11:15</td>
<td>Consortium-Wide Highlights and CaSGC Headquarters Activities</td>
<td>Tehseen Lazzouni</td>
</tr>
<tr>
<td>11:45</td>
<td>Break and Networking (install Arduino Software)</td>
<td></td>
</tr>
</tbody>
</table>

**Project Presentations**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td>PreCollege: Underrepresented STEM</td>
<td>Lily Gossage</td>
</tr>
<tr>
<td>12:30</td>
<td>Research: NASA Dawn Mission</td>
<td>Chris Russell</td>
</tr>
</tbody>
</table>
2014 Consortium Meeting
California Space Grant Consortium

“State of the Consortium”

John Kosmatka, Director

Presented at:
NASA Ames Research Center
March 28, 2014
State of the Consortium

- NASA National Space Grant Program
- California Space Grant Consortium
- Space Grant Congressional Meetings
- 2014 National Space Grant Directors Meeting
- Budget Realities
State of the Consortium

- NASA National Space Grant Program
- California Space Grant Consortium
- Space Grant Congressional Meetings
- 2014 National Space Grant Directors Meeting
- Budget Realities
NASA National Space Grant Program

- Develop and train a high-tech workforce to sustain a robust U.S. science and space exploration program
- Over 1,000 affiliates in the 52 Space Grant Consortia
- Capitalize on 1:1 match
- Undergraduates (91% have STEM jobs)
  - Nearly 25% minorities
  - Nearly 40% women
State of the Consortium

- NASA National Space Grant Program
- California Space Grant Consortium
- Space Grant Congressional Meetings
- 2014 National Space Grant Directors Meeting
- Budget Realities
28 Affiliate Institutions

- **Lead Institution:**
  - UCSD: University of California, San Diego

- **Affiliate Members:**
  - APU: Azusa Pacific University
  - ASP: Astronomical Society of the Pacific
  - CIT: California Institute of Technology
  - CPP: California State Polytechnic University, Pomona
  - CPS: California State Polytechnic University, San Luis Obispo
  - CSUF: California State University, Fresno
  - CSULA: California State University, Los Angeles
  - CSULB: California State University, Long Beach
  - CSUS: California State University, Sacramento
  - CSUSB: California State University, San Bernardino
  - PC: Pomona College
  - SCU: Santa Clara University
  - SDCC: San Diego City College
  - SDSC: San Diego Supercomputer Center
  - SDSU: San Diego State University
  - SJSU: San Jose State University
  - SSU: Sonoma State University
  - SU: Stanford University
  - UCB: University of California, Berkeley
  - UCD: University of California, Davis
  - UCI: University of California, Irvine
  - UCLA: University of California, Los Angeles
  - UCR: University of California, Riverside
  - UCSB: University of California, Santa Barbara
  - UCSC: University of California, Santa Cruz
  - USC: University of Southern California
  - USD: University of San Diego

12 Community College Partners

- CC: Citrus College
- CaC: Cabrillo College
- CCSF: City College of San Francisco
- COD: College of the Desert
- CSM: College of San Mateo
- GC: Gavilan College
- HC: Hartnell College
- LACC: Los Angeles City College
- MSAC: Mt. San Antonio College
- NVC: Napa Valley College
- SBCC: Santa Barbara City College
- SC: Southwestern College

3 NASA Center Partners

- AMES: NASA Ames Research Center
- DRYDEN: NASA Dryden Flight Research Center
- JPL: NASA Jet Propulsion Laboratory
California Space Grant Consortium: Vision & Mission

**Vision:**

To inspire & educate the next generation of aerospace scientists, engineers, and managers.

**Mission:**

To serve as a crosscutting and integration agent in California to bring NASA aerospace-related content and expertise to the educational community and general public.
California Space Grant Consortium: Program Goals

- Diversity & Inclusion
- Quality Scholarships & Fellowships
- Research Infrastructure
- Higher Education Interdisciplinary Hands-On Projects
- Precollege Programs
- Informal Education & Public Outreach
Program Goals:

1) Diversity & Inclusion

Promote diversity and inclusion in all programs and activities by encouraging participation by underrepresented minority and female students and faculty.

Each year:

• Provide awards to underrepresented minority and female students that is consistent with diversity targets established by NASA.

• Undertake at least three collaborative programs with a non-member minority serving institution.

• Conduct at least one outreach event in partnership with a non-member minority serving institution to promote programs and opportunities to students and faculty.

The diversity targets are currently 41% for awards to minority students, based on National Center for Education Statistics data for California (2011), and 40% for awards to female students, based on NASA guidance.
Program Goals:
2) Quality Scholarships & Fellowships

Conduct quality scholarship and fellowship programs including STEM research awards for community college, undergraduate and graduate students to broaden and deepen students’ knowledge.

Each academic year:

• **Award undergraduate, graduate, and community college students with scholarships and fellowships.** Students will be competitively selected by a review panel.

• **Award at least the minimum funding amount required by NASA (currently $150,000 from baseline and $55,000 from augmentation funds) to at least 75 students,**

• **Provide a percentage of fellowship/ scholarship awards to under-represented minority and female students that is consistent with diversity targets established by NASA.**
Program Goals:
2) Quality Scholarships & Fellowships

GOAL 2, CONTINUED:

• **Longitudinally track 100% of all students** receiving significant awards to identify their next step in academia or the workforce. Significant awards are those equal to or greater than $5,000 or 160 contact hours, cumulatively.

• At least **90% of students** completing their education and receiving significant awards will be employed by NASA, an aerospace contractor, higher education or other educational institutions.

• At least **50% of undergraduate students** receiving significant support from CaSGC will move on to **advanced education** in NASA-related disciplines.
Program Goals:

3) Research Infrastructure

Undertake programs that foster research capabilities at our affiliate institutions that link university researchers to NASA and other opportunities.

Each academic year:

• Support at least three interdisciplinary student research infrastructure projects in partnership with CaSGC affiliate institutions.

• Involve at least 15 students in research infrastructure projects in partnership with CaSGC affiliate institutions.

• Provide a percentage of research infrastructure awards to underrepresented minority and female students that is consistent with diversity targets established by NASA.
Program Goals:

4) Higher Education Interdisciplinary Hands-On Projects

Offer hands-on higher education programs in partnership with our affiliate institutions to prepare students for STEM employment.

Each academic year:

• Provide paid internships for at least six students at California NASA Centers and at least one student at an industry partner.

• Conduct at least five hands-on interdisciplinary higher education projects in partnership with CaSGC affiliate institutions.

• Involve at least 75 students in hands-on interdisciplinary higher education projects in partnership with CaSGC affiliate institutions.
Program Goals:

4) Higher Education Interdisciplinary Hands-On Projects

GOAL 4, CONTINUED:

Each academic year:

• Involve students from underrepresented backgrounds in hands-on higher education projects at a level consistent with diversity targets\(^1\) established by NASA.

• At least 70\% of Minority Serving Institution (MSI) affiliates will be involved in our higher education programs. Currently there are 7 MSI affiliates.

• Each academic year, at least two new or revised courses targeted at the STEM skills needed by NASA will be developed with CaSGC support.
Program Goals:  
5) Pre-College Opportunities

Provide precollege educational program for pre-service and in-service educators and students.

Each year:

- Provide professional development in STEM using NASA resources to at least 40 teachers.
- Reach over 200 precollege students by conducting student-focused programs and activities promoting STEM and related careers.
- At least 75% of precollege educators participating in two or more days of professional development will use NASA resources in their classroom.
- At least 60% of precollege educators receiving NASA resources or participating in CaSGC-led short duration activities will use NASA resources in their classroom.
Program Goals:
6) Public Outreach

Conduct Informal Science Education programs in partnership with formal and informal education members and partners.

Each year:

- Utilize material developed in CaSGC’s other program elements to inspire and engage the general public at science-related events and university open houses.
- Sponsor at least one program with the Reuben H. Fleet Space Center, the San Diego Air & Space Museum, and/or the California Science Center.
- Consider other appropriate informal science education opportunities as funding and partnerships permit.
State of the Consortium

- NASA National Space Grant Program
- California Space Grant Consortium
- Space Grant Congressional Meetings
- 2014 National Space Grant Directors Meeting
- Budget Realities
CA Space Grant Program Congressional Meetings
Wednesday 2/26/14 – Thursday 2/27/14

- 24 (1/2 hour) meetings with Congressional Staff
  - Sen. Barbara Boxer
  - Sen. Dianne Feinstein
  - Dem Leader Nancy Pelosi
  - Senate CJS Approps: Allen Cutler
  - Rep. Xavier Becerra
  - Rep. Ken Calvert
  - Rep. John Campbell
  - Rep. Lois Capps
  - Rep. Tony Cardenas
  - Rep. Susan Davis
  - Rep. Mike Honda
  - Rep. Duncan D. Hunter
  - Rep. Darrell Issa
  - Rep. Zoe Lofgren
  - Rep. Alan Lowenthal
  - Rep. Tom McClintock
  - Rep. George Miller
  - Rep. Scott Peters
  - Rep. Dana Rohrabacher
  - Rep Adam Schiff
  - Rep. Jackie Speier
  - Rep. Juan Vargas
  - Rep. David Valadao

- 32 folder drop-offs
- Discuss California and your district activities
- Everyone is supportive of STEM and NASA Space Grant
- They want to visit your programs.
California Space Grant has been supporting students from the Lyles College of Engineering at CSU Fresno in an Unmanned Aerial Vehicle (UAV) project. This interdisciplinary group of students has gained tremendous hands-on design experience in electronics, embedded systems, software engineering, and electro-mechanical systems integration preparing them for high-tech careers in aerospace engineering.

California Space Grant has also supported CSU Fresno undergraduate students mentoring elementary students in the development of robots for a robotics competition. This mentoring is taking place at Lowell Elementary, a school located in a disadvantaged neighborhood. The project has inspired and engaged the elementary students in Science and Engineering while giving the college students the experience of leading a team and sharing their science and engineering knowledge.

In addition to these higher education and elementary education projects, the California Space Grant has supported a high school Summer Engineering Experience (SEE) to increase gender diversity and introduce the students to the many areas of engineering.

These three projects are directly related to meeting our nation’s critical need for a strong, diverse, and competitive STEM workforce for the 21st century.

In 2013 the California Space Grant Consortium provided Pre-Service and In-Service Professional Development in Astronomy with affiliate Astronomical Society of the Pacific (ASP) and community college partners Hartnell College and the College of San Mateo. The workshop, developed by the ASP and funded by the California Space Grant to impart techniques for engaging students with diverse cultural backgrounds, is entitled “Multicultural Astronomy in the Classroom”. This workshop explores activities and resources about the astronomical heritage of cultures from around the world and gave participating teachers techniques for engaging students with diverse cultural backgrounds while also supporting the broader goals of new teaching standards. Teachers were from districts throughout Santa Cruz and Monterey Counties, areas with large numbers of students from backgrounds traditionally underrepresented in STEM. Upon completion of these workshops the teachers implement the new techniques in their classrooms to engage and inspire their students in the Sciences and Engineering.

Feedback received from the teacher participants included:

- “Pleasant, fun, and informative. Descriptive and activity based. A must do workshop for any teacher integrating astronomy into the classroom.”
- “Great overview of how to integrate astronomy/space science using an integrated curriculum approach.”
- “Very information-rich institute that placed careful and strategic emphasis on depth of understanding.”
- “This was a fantastic PDI. Having been to many NASA workshops (NEW and Teacher’s Space), the Exploratorium and Next Step Institutes, I would say that this PDI ranks as one of my best science PD experiences. I thank you for the opportunity and the in-depth workshop. I feel well prepared and excited for a PD in my regional area.”

Pre-Service teachers attending related California Space Grant-funded workshops by the ASP gave the following feedback:

- “I used to think that science was too challenging for many young kids and that many of them found it uninteresting; but now I know that it’s really fun and lots of kids love it!”
- “I used to think that astronomy was all facts and images; but now I know it’s awesomely possible to have it hands on.”
- “I used to think the solar system was best learned through reading and visuals and that’s how I was taught in school; now I know it’s best learned by engagement by student doing hands-on, first hand learning.”

Funded by the California Space Grant: Multicultural workshop at the College of San Mateo (CSM)
(Photos courtesy Andy Kreyche, Hartnell College)
State of the Consortium

- NASA National Space Grant Program
- California Space Grant Consortium
- Space Grant Congressional Meetings
- 2014 National Space Grant Directors Meeting
- Budget Realities
Highlights of

2014 National Space Grant Directors Meeting
Washington, DC, Feb 27 – March 1

Dr. Roosevelt Johnson, Acting Associate Administrator for NASA Education

- Space Grant very important to the NASA Office of Education
- Commitment to increased communication, transparency, and responsiveness
- Would like to see more promotion of Space Grant on social media
- “If you’re not having fun doing this, you’re not doing it right.”
Highlights of

2014 National Space Grant Directors Meeting
Washington, DC, Feb 27 – March 1

Dr. Lenell Allen, Director, Aerospace Research & Career Development, NASA Office of Education

• FY14 Omnibus Bill Language - “Any Space Grant funds available in excess of the amount needed to fulfill base awards ($28M) shall be made available to all consortia on a competitive basis.”
• Annual Performance Document (California’s is due 6/25/14)
• National Evaluation: May-July 2015

• Future solicitations
  Competitive Targeted Community College and Technical Schools Opportunity (RFP, March 2014)
State of the Consortium

- NASA National Space Grant Program
- California Space Grant Consortium
- Space Grant Congressional Meetings
- 2014 National Space Grant Directors Meeting
- Budget Realities
Budget Realities

Space Grant Funding – President’s Request and Enacted Amount

California must compete, cautiously

NASA HQ Competitive Awards (2 yr)

$790K/yr

$45.5M

$40M

$12M

$28M

Baseline Awards

$575K/yr

Each state is being asked to do more. Funding is cut by 27% (to 2005 levels)

California Space Grant Consortium

FY14
Highlights of
2014 National Space Grant Directors Meeting
Washington, DC, Feb 27 – March 1

Budget Realities

• In year 4 of 5 year program. Year 5: 8/26/2014 to 8/26/2015

• Congress is requiring an External Evaluation of Program

• Expected Solicitation for next 2-year award in 8/2014.

• NASA warns that no new base awards until the review process is complete.

• NASA is cautioning that we may need “no-cost extensions” on current 5-year award to tide us over before new award.
California Baseline Funding Activities

**University Efforts**

- **457** Higher Education Direct Participants
- **205** Fellowship & Scholarship Recipients
- **38** Higher Education Projects Conducted
- **12** Higher Education Courses Created or Revised to Teach STEM Skills

**Focus areas**

- Aerospace Engineering
- Astronautics
- Chemical Engineering
- CubeSat Development
- Dynamic Tensegrity Robotics
- Earth System Science
- Environmental Science
- Geophysics
- High Endurance Green Aircraft Design
- Materials Science
- Nanotechnology
- Near Space Ballooning
- Photovoltaics
- Remote Sensing
- Rocket Engine Development
- Satellite Operations
- Space Physics
- and more...

**Pre-College Efforts**

Program Participants **This Year:**

- **296** Precollege Students
- **56** In-Service Educators
- **34** Pre-Service Educators
QUESTIONS ??
## Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Welcome and Introductions</td>
<td>John Kosmatka &amp; Chris Russell</td>
</tr>
<tr>
<td>10:10</td>
<td>NASA Centers Education Overview</td>
<td>Linda Rogers, Frank Pena</td>
</tr>
<tr>
<td></td>
<td>NASA-Jet Propulsion Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NASA-Armstrong Flight Center</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>State of the Consortium</td>
<td>John Kosmatka</td>
</tr>
<tr>
<td>11:00</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>Consortium-Wide Highlights and CaSGC Headquarters Activities</td>
<td>Tehseen Lazzouni</td>
</tr>
<tr>
<td>11:45</td>
<td>Break and Networking (install Arduino Software)</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>PreCollege: Underrepresented STEM</td>
<td>Lily Gossage</td>
</tr>
<tr>
<td>12:30</td>
<td>Research: NASA Dawn Mission</td>
<td>Chris Russell</td>
</tr>
</tbody>
</table>

**Project Presentations**

<table>
<thead>
<tr>
<th>Time</th>
<th>Project Name</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td>PreCollege: Underrepresented STEM</td>
<td>Lily Gossage</td>
</tr>
<tr>
<td>12:30</td>
<td>Research: NASA Dawn Mission</td>
<td>Chris Russell</td>
</tr>
</tbody>
</table>

**California Space Grant Consortium**

**NASA**
# Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Welcome and Introductions</td>
<td>John Kosmatka &amp; Chris Russell</td>
</tr>
<tr>
<td>10:10</td>
<td>NASA Centers Education Overview</td>
<td>Linda Rogers, Frank Pena</td>
</tr>
<tr>
<td>10:30</td>
<td>State of the Consortium</td>
<td>John Kosmatka</td>
</tr>
<tr>
<td>11:00</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>Consortium-Wide Highlights and CaSGC Headquarters Activities</td>
<td>Tehseen Lazzouni</td>
</tr>
<tr>
<td>11:45</td>
<td>Break and Networking (install Arduino Software)</td>
<td></td>
</tr>
</tbody>
</table>

## Project Presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td>PreCollege: Underrepresented STEM</td>
<td>Lily Gossage</td>
</tr>
<tr>
<td>12:30</td>
<td>Research: NASA Dawn Mission</td>
<td>Chris Russell</td>
</tr>
</tbody>
</table>
Program Schedule

1:00  Lunch and Open Mic Session

Project Presentations

2:00  Higher Ed: San Diego MESA Alliance Research Academy & Mentoring Chain  
      Gustaaf Jacobs  
      SDSU

2:15  Precollege: Student Spaceflight Experiment Program  
      Marianna O’Brien  
      Lincoln Middle School

2:30  Student Poster Session

3:30  Upcoming Proposals and Consortium Activities

3:15  Meeting Summary and Open Discussion

3:45  Arduino Build Project  
      Phuong Truong  
      UCSD

5:00  Adjourn
FY-2014 NASA Cooperative Agreement Notice (CAN) RFP: Competitive Opportunity for Partnerships with Community Colleges and Technical Schools

The intent is to directly support:

• **Enhance STEM Experience of Undergraduate Students:** NASA goal to graduate one million students with degrees in STEM fields over the next 10 years and, understanding that students from various backgrounds may comprise high enrollment in community colleges and technical schools

• **Better Serve Groups Historically Underrepresented in STEM Fields:** Increase the number of students from underrepresented groups and improve women’s participation in areas of STEM

  • attract/retain more community college students into STEM-based programs
  • increase educators’ ability to deliver NASA STEM content
  • create strategic relationships with NASA Centers & industry
  • build capability to incorporate NASA STEM content into its curricula
  • increase students that complete their Associate’s degree and take a STEM job or transfer to a four-year university

**California Space Grant Consortium**

**Release Date:** 3-20-2014
**Notice of Intent Due:** 4-14-2014
**Proposals Due:** 5-28-2014
FY-2014 NASA Cooperative Agreement Notice (CAN) RFP:
Competitive Opportunity for Partnerships with Community Colleges and Technical Schools

Requirements:

• **One Proposal per Consortium**
• Direct (financial and hands-on) support for community college faculty and undergraduate students enrolled in a STEM degree program
• Four-year institutions may engage via bridge programs or other collaborative efforts, the focus and intent is to provide direct support to community colleges.
• No graduate student support leading to education degrees is allowed
• U.S. citizens only
• Target; minimum 41% diversity and 40% female participation

Program Elements for Students:

• Scholarships
• Internships at NASA Centers or STEM Industry
• Bridge to four year institutions
• Summer hands-on opportunities and workshops
• Design Challenges, New Courses

| 2-year ($250K/yr) | $500K max |
| Scholarships:     | $200K min |
QUESTIONS ??