University of Colorado
- MS, Electrical Engineering, 1990
- PhD, Electrical Engineering, 1994

National Center for Atmospheric Research
- High Altitude Observatory, 1995-1997

University of Colorado, Aerospace Eng. Sciences
- Research Associate, 1997-1999;
- Assistant Research Professor, 1999-2001
- Assistant Professor, 2001-2007
- Associate Professor, 2007 – 2012
- Full Professor, 2012-present

New ADR
Scott Palo
ADR Staff and Responsibilities

• **William (Bill) Doe**: Identifying multidisciplinary opportunities and building collaborative research teams

• **Linda Rose**: Liaison between CEAS and other key offices. Support with monitoring award processing and handling issues as they arise

• **Molly Riddell**: Direct support for large proposals, CAREER and strategic proposals, coordination of training events

• **Hilary Maybee**: Distribution of key funding opportunities, marketing for CEAS research portfolio
CEAS Research Awards

2014 Awards in $M

<table>
<thead>
<tr>
<th>Department</th>
<th>2014 Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aero Engr</td>
<td>28</td>
</tr>
<tr>
<td>Chem Engr</td>
<td>19</td>
</tr>
<tr>
<td>Civil Engr</td>
<td>37</td>
</tr>
<tr>
<td>Comp Sci</td>
<td>20</td>
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<tr>
<td>ECE</td>
<td>35</td>
</tr>
<tr>
<td>Mech Engr</td>
<td>27</td>
</tr>
</tbody>
</table>

Total Campus FY14 Funding by Unit

TT faculty

College of Engineering & Applied Science
UNIVERSITY OF COLORADO BOULDER
CEAS Funding Portfolio

FY14

- NSF 25%
- NIH 5%
- NASA 11%
- DOE 11%
- Industry 13%
- Other 8%
- State & Local 2%
- Other Federal 8%

NSF - National Science Foundation
NIH – National Institutes of Health
NASA – National Aeronautics and Space Admin.
DOD – Department of Defense
DOE – Department of Energy

$30M
$20M
$10M
FY14 awards normalized to grant size per year

- Small: 86%
- Medium: 10%
- Large: 3%
- Very Large: <1%
- Huge: <1%

370 separate awards
$72.6M
FY14 Large Awards

> $500K/yr

1. Carbothermal Reduction Process for Producing Magnesium Metal Using A Reduced Pressure Hybrid Solar/Electric Reactor (CBEN) - $1200K (DOE)
2. Soil Blast Modeling and Simulation (CVEN) - $1012K (DOD Navy)
3. A Platform for Genome-scale Design, Redesign, and Optimization of Bacterial Systems (CBEN) - $854K (DOE)
4. Solar-biochar Toilet (CVEN) - $605K (Gates Foundation)
5. Real-Time Orbit Determination Accuracy Improvement for Low-Earth Orbiting Spacecraft (ASEN) – $587K (DOD)
6. Bolometer ALD (MCEN) - $532K (DOD DARPA)
7. Cooking & Lighting Impact on Air Quality & Climate (MCEN) - $500K (EPA)
8. CU-catalyzed Azide-alkyne Reactions for Novel Dental Composite Materials (CBEN) - $500K (NIH)
Observations

• CEAS funding grew FY08-FY11, without including ARRA awards
• Awards < $150K/yr contributed to 86% of total awards in FY14
• Largest source of funding is NSF, but no awards over $500K/yr in 2014
• 3 DOD awards over $500K/yr but DOD only accounts for 15% of FY14 awards. Similar case for DOE.
• Two departments did not have any awards >$500K/yr in FY14
• DOD and DOE awards fluctuate by 50% year to year, possibly due to large awards
Strategic Goal

• Grow CEAS research funding through increased success on large proposals and faculty growth

• Approach
  – Identify opportunities early
  – Coordinate faculty
  – Provide resources for large proposal development
  – Provide additional training
  – Develop young faculty