

IOWA STATE UNIVERSITY  
College of Engineering



OCTOBER 23-24, 2008

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# Asteroid Deflection Research Symposium 2008

**Doubletree Hotel Crystal City-National Airport  
Arlington, Virginia**

**Organized by**  
Asteroid Deflection Research Center  
Department of Aerospace Engineering  
Iowa State University  
Ames, Iowa

and

**Sponsored by**  
Vance D. Coffman Endowed Chair Fund  
Iowa State University Foundation  
Ames, Iowa

# SYMPOSIUM AGENDA

## Thursday, October 23

	7:30–9:00 a.m.	<b>Registration and Breakfast</b>
	8:30–9:00 a.m.	<b>Introduction to ADRS 2008</b> <i>Bong Wie, Iowa State University</i>
	9:00–9:30 a.m.	<b>NASA's NEO Program Overview</b> <i>Lindley Johnson, NASA HQ</i>
<b>Symposium Objectives</b>  <i>To exchange technical information and to develop an integrated multidisciplinary R&amp;D program for asteroid deflection/fragmentation using high-energy as well as low-energy options</i>	9:30–10:30 a.m.	<b>Continuing Efforts at NASA MSFC Analyzing Options for Deflection of Near Earth Objects</b> <i>Robert Adams, NASA Marshall Space Flight Center</i>
	10:30–11:30 a.m.	<b>On NEO Threat Mitigation</b> <i>Jean-Luc Cambier, AFRL, Edwards AFB</i>
	11:30 a.m.–12:30 p.m.	<b>Propulsion and Power with Positrons</b> <i>Kenneth Edwards, AFRL, Eglin AFB</i>
	12:30–2:00 p.m.	<b>Luncheon</b>
	2:00–2:30 p.m.	<b>Potential DTRA Contributions to Planetary Defense Using the Nuclear Option</b> <i>Gilbert Wayne Ullrich, Defense Threat Reduction Agency</i>
	2:30–3:30 p.m.	<b>New Perspectives on the NEO Threat and Other Reasons to Consider Asteroid Deflection/Fragmentation</b> <i>Mark Boslough, Sandia National Laboratories</i>
	3:30–4:30 p.m.	<b>Asteroid Deflection via Standoff Nuclear Explosions</b> <i>Aaron Miles, Lawrence Livermore National Laboratory</i>
	4:30–5:30 p.m.	<b>A Survey of Capabilities and Program Objectives for Using Nuclear Devices to Mitigate the Threat Posed by Hazardous Near Earth Objects</b> <i>Brent William Barbee, Emergent Space Technologies</i>
	5:30–8:00 p.m.	<b>Symposium Reception and Dinner</b>

## SYMPOSIUM ATTENDEES

### Robert Adams

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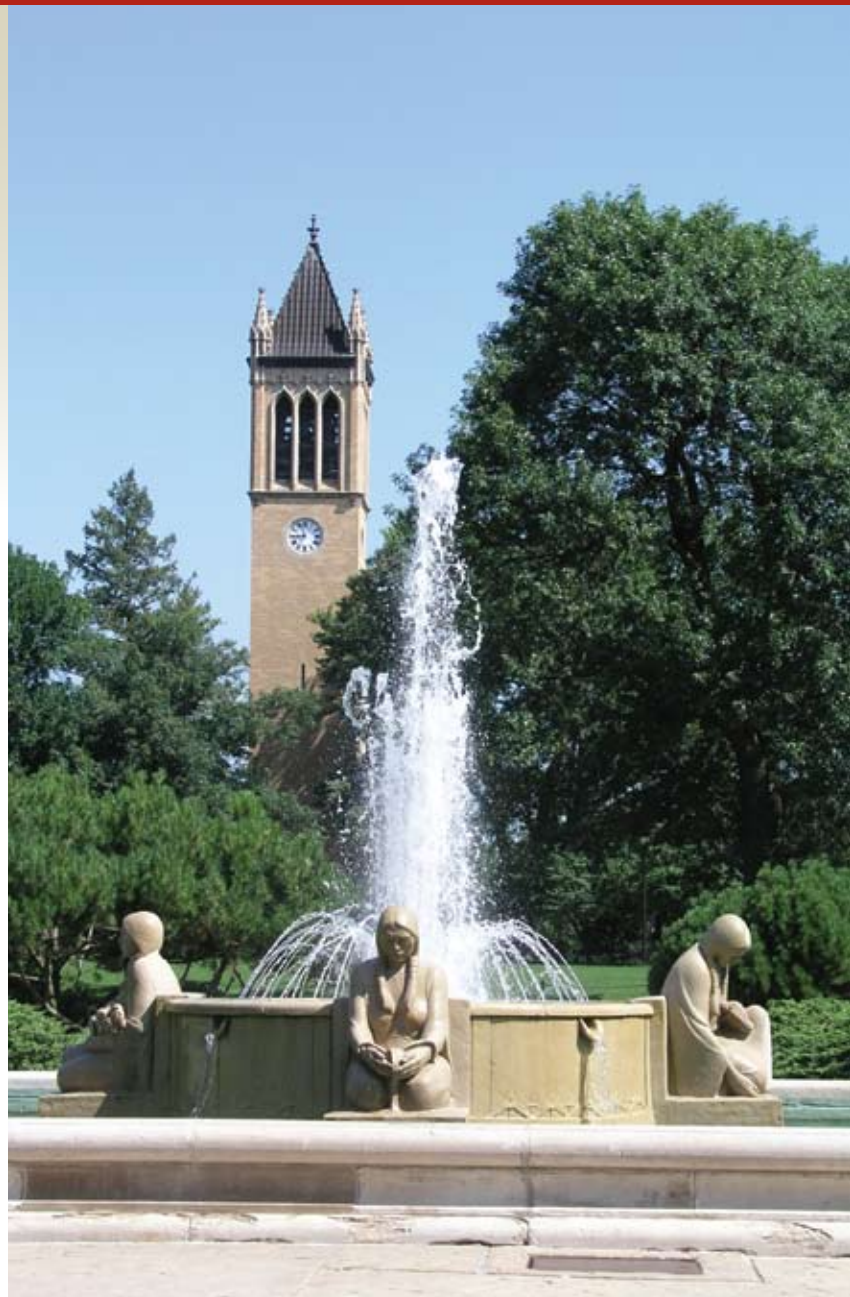
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## Friday, October 24

- 7:30–9:00 a.m. **Breakfast**
- 8:30–9:30 a.m. **Possibilities for a Bose-Einstein Condensed Positronium Annihilation Gamma Ray Laser**  
*Allen Mills, Department of Physics and Astronomy, University of California, Riverside*
- 9:30–10:30 a.m. **Hypervelocity Penetration of NEOs**  
*Christopher Engelhardt, AFRL, Eglin AFB*
- 10:30–11:00 a.m. **Solar-Reflector Gravity Tractor for Asteroid Deflection**  
*Jeff Fisher, Lockheed Martin Space Systems*
- 11:00 a.m.–12:00 noon **Kinetic Impactors and Gravity Tractors for Asteroid Deflection**  
*Bong Wie, Iowa State University*
- 12:00 noon–1:30 p.m. **Luncheon**  
*Keynote talk by Pete Worden, Director of NASA Ames Research Center*
- 1:30–3:00 p.m. **Discussion on an Integrated Multidisciplinary R&D Program**
- 3:00 p.m. **Adjourn**



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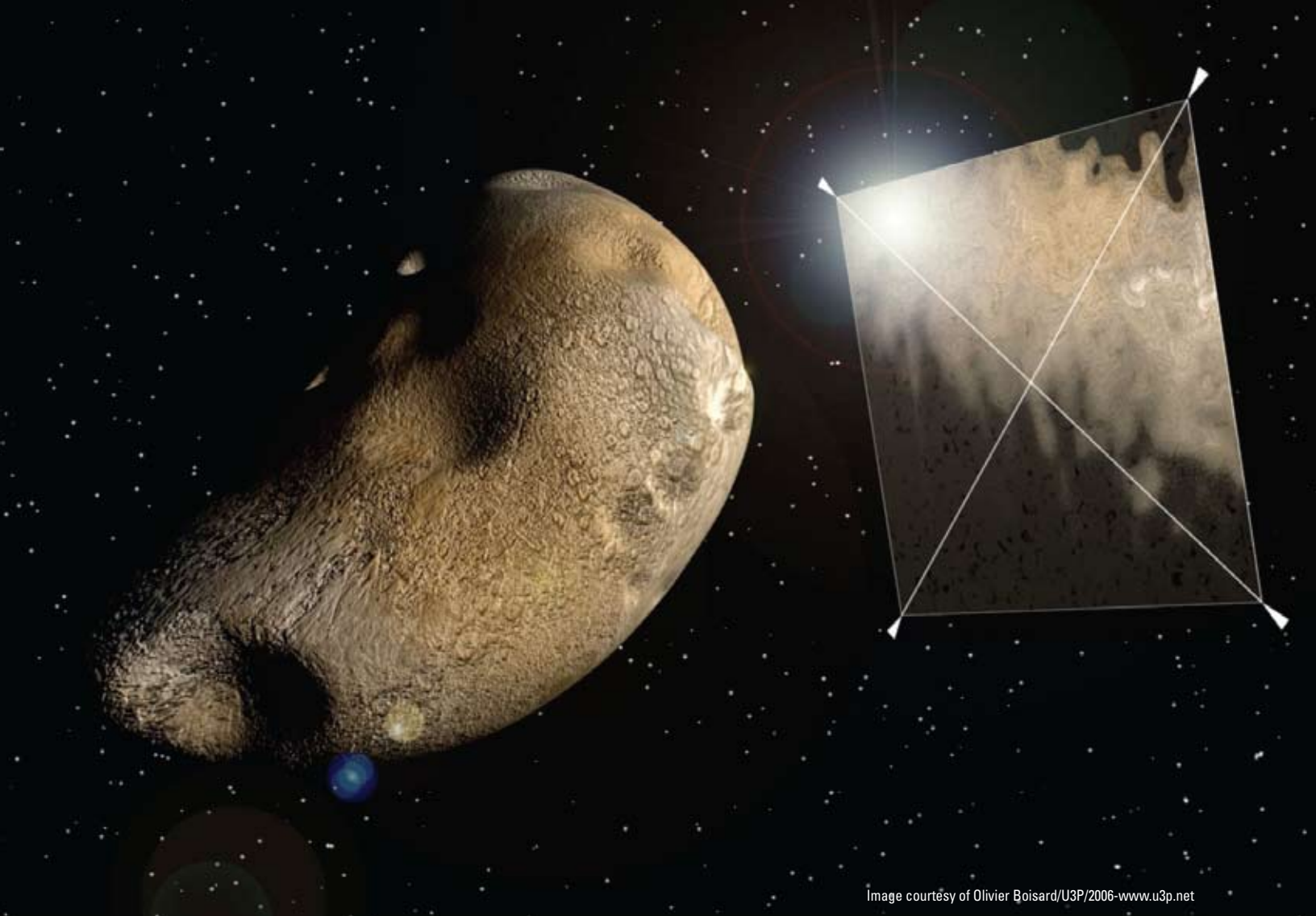


Image courtesy of Olivier Boisard/U3P/2006-www.u3p.net

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For more information about the Asteroid Deflection Research Symposium 2008, contact

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