

# University Programs

*Nuclear Energy Research Advisory Committee*



*R. Shane Johnson, Associate Director  
Office of Technology and International Cooperation  
Office of Nuclear Energy, Science and Technology*

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# Innovations in Nuclear Infrastructure and Education (INIE)

- ◆ Program results from recommendation of NERAC Task Force
- ◆ Conference in Chicago provided needed input on approach to “regional facilities”
- ◆ INIE encourages universities to establish enhanced cooperation with other universities, national labs, U.S. industry and other private and public organizations
- ◆ INIE seeks commitments from participating universities to maintain their current levels of funding support



## **Innovations in Nuclear Infrastructure and Education (INIE) (cont.)**

- ◆ **Solicitation issued on December 21, 2001, and closed on March 15, 2002**
- ◆ **Thirteen proposals were received with a total request of over \$50 million the first year**
- ◆ **Awards are expected to range between \$100,000 to \$2,000,000 or more yearly and be renewable on an annual basis for up to four additional years**
- ◆ **INIE Peer Review Panel will complete its deliberations in April and funding decisions will be made in May 2002**



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## *FY 2002 Program Status*

- ◆ **Awarded three new Radiochemistry grants -- Washington State, Colorado State, and the University of Texas-Austin**
- ◆ **Peer review panels have been completed for:**
  - Matching Grants
  - Reactor Sharing
  - Fellowships and Scholarships
  - University Reactor Instrumentation Grants
  - Nuclear Engineering Education Research Grants
- ◆ **Summer internships will number over 20 this summer with significantly more applicants than last year**



# University Programs

## *Positive Developments*

- ◆ **Enrollments have increased substantially at many schools**
  - Demand for nuclear graduates continues to exceed supply
  - Job offers are plentiful with attractive starting salaries
- ◆ **The Majority/Minority program is attracting more minority students to nuclear engineering**
- ◆ **Planning is underway for DOE/NE to sponsor a distance learning nuclear engineering course**
- ◆ **The INIE program has resulted in an increased level of cooperation among educational institutions, industry and utilities**

**Backup**



# University Reactor Fuel Assistance and Support

## *FY 2001 to FY 2003 Budgets* *(\$ in Millions)*

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
University Nuclear Infrastructure	\$ --	\$ --	\$ 8.0
Innovations in Nuclear Infrastructure Education	0.0	5.5	--
Fuel	2.8	2.8	--
Reactor Sharing	0.6	0.6	--
Reactor Upgrade	0.9	0.9	--
Nuclear Engineering Education Research	5.0	5.0	5.6
Matching Grants	0.8	0.8	1.2
Fellowships/Scholarships (Including Minority Awards)	1.4	1.4	1.8
Radiochemistry	0.3	0.3	0.3
Nuclear Engineering Education Opportunities	<u>0.2</u>	<u>0.2</u>	<u>0.6</u>
<b>TOTAL</b>	<b>\$12.0</b>	<b>\$17.5</b>	<b>\$17.5</b>



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## *Recent Developments*

- ◆ **Awarded fourth (4<sup>th</sup>) Minority/Majority Partnership (Tuskegee/Cincinnati)**
- ◆ **Funded Matching Grants at 22 institutions with 35 private sponsors**
- ◆ **Awarded 24 reactor sharing and 22 reactor upgrade grants**
- ◆ **Provided 19 new NEER grants to 14 institutions**
- ◆ **Made fellowship offers to 11 students**
- ◆ **Continued ANS-teacher workshops, fresh and spent fuel shipments of university reactor fuel, and third year of radiochemistry awards**
- ◆ **Provided summer internships to approximately 25 university students at INEEL, ANL-East and West, and DOE-HQ.**





# Decline in Enrollments and University Reactors

