



SBIR/STTR Programs in Fusion Plasma Facing Components Research

ALPS/PFC Spring 2004

D. L. Youchison
SBIR/STTR POC for
Sandia National Laboratories

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Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company,
for the United States Department of Energy's National Nuclear Security Administration
under contract DE-AC04-94AL85000.





The fusion PFC community welcomes interaction with small business.

13 US small businesses in attendance today.

19 were contacted because of pervious involvement in the program

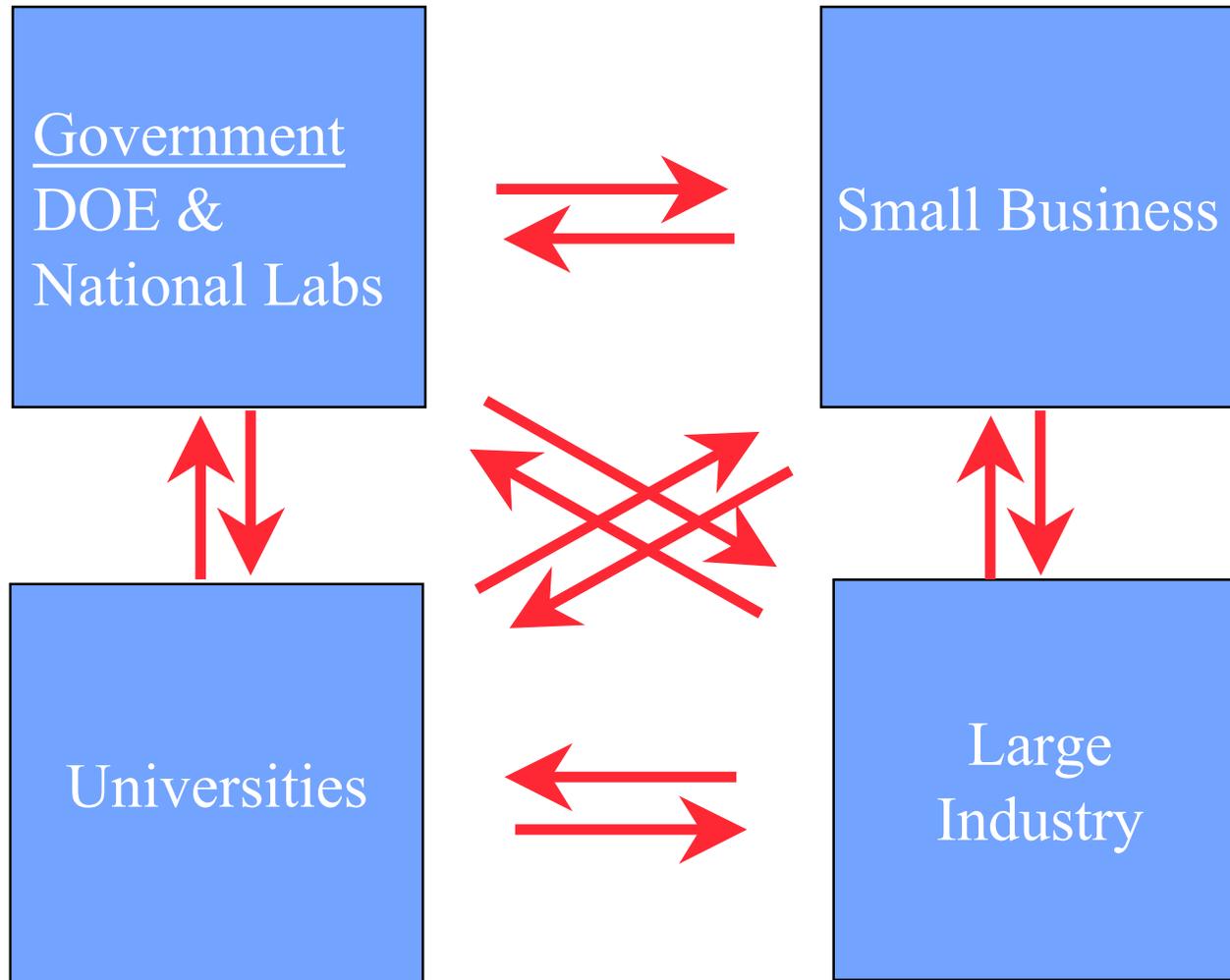
- **SBIR/STTR Session Goals**
 - **Background for proposal input**
 - Identifying areas of interest and capabilities
 - Understanding your competition
 - Foster collaboration among small businesses, mitigate IP issues
 - **Contacts between business and institutional researchers**
 - Attendee list with contact info
 - Your presentations can be posted on the PFC website
 - **Update on fusion PFC research priorities and plans**

- **PFC-steering committee perspectives**

- **Large Industrial partners have included:
Boeing, General Atomics, Westinghouse, Brush-Wellman, Lockheed Martin
and others**



Foster Technology Exchange in the PFC Community





SBIR/STTR PFC topics

Current PFC research includes:

- **Liquid Metal Research – computational CFD/MHD**
- **High Heat Flux – Active Cooling Technologies**
- **High Temperature Materials for armor and heatsinks**
- **Wall Conditioning and Coatings**
- **Low Activation Joining and NDE of PFCs**

Magnets, Heating and *Diagnostics are not represented



Important Dates for DOE SBIR/STTR

- **Phase-I&II** **solicitation 1st week in October**
proposals due 1st week in January
award notifications in early May

electronic submission via the DOE e-Center: Industry Interactive Procurement System (IIPS)

<http://sbir.er.doe.gov/sbir/>

DOE SBIR/STTR

OFES contact

Enabling Technologies, PFCs, ITER

Walter Warnick

T.V. George

Sam Berk

Phase I <\$100k 9 month period

Phase II <\$750k 2 year period



Web sites of interest

- DOE SBIR/STTR site <http://sbir.er.doe.gov/sbir/>
- Office of Fusion Energy Science
<http://www.science.doe.gov/feature/fes.htm>
- Virtual Laboratory for Technology at UCSD
<http://vlt.ucsd.edu/index1.html>
- ALPS/PFC site
<http://www.td.anl.gov/Programs/fusion/index.html>
- FIRE site <http://fire.pppl.gov/>
- ITER site <http://www.iter.eu.de/>
- ANS Fusion Energy Division <http://fed.ans.org/>



Session Guidelines

- **Presentations are strictly limited to 15 minutes.**
- **One or two very short clarifying questions only.**
- **Please save in-depth questions and comments for the discussion period: 2:15 – 2:45**
Open Forum: “Needs, Capabilities and Opportunities”
- **Private discussions during the breaks are welcome.**