

# EXECUTIVE SUMMIT ON MARINE AND HYDROKINETIC RESEARCH AND DEVELOPMENT

U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
SAND2016-1571C

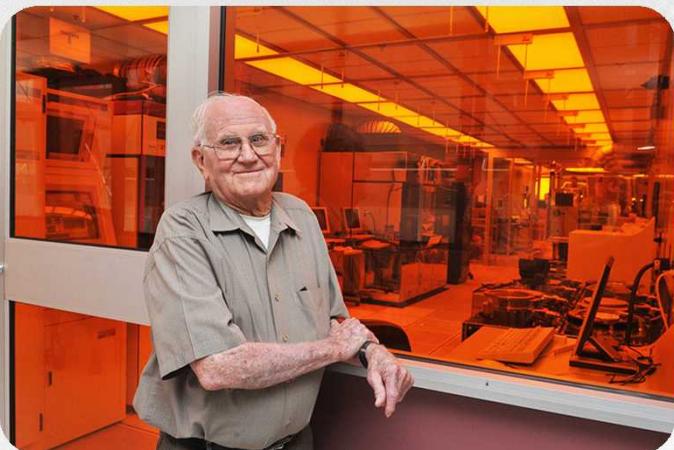


## Technology Transfer 101

March 2, 2016

**Amanda J. Spinney**

Business Development and Partnerships  
Sandia National Laboratories



## Laminar Flow Clean Room, 1962

- Game-changing for the development of microelectronics
- ~ \$50B worldwide

- Polycrystalline diamond compact (PDC) bits
- Helping to unlock ~ 70 years' worth of natural gas resources



Recipient of the Federal Laboratory Consortium's 2016 Award for Excellence in Technology Transfer



# Mechanisms for Partnership

U.S. DEPARTMENT OF  
**ENERGY**

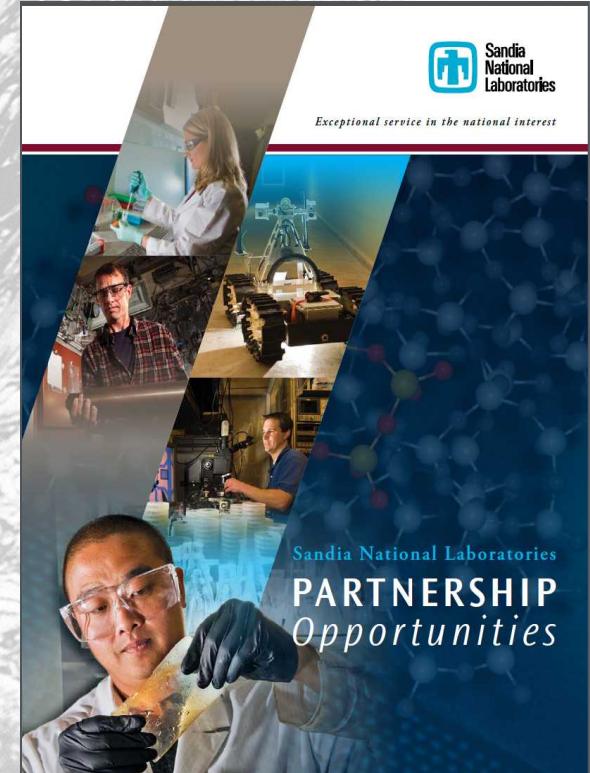
Energy Efficiency &  
Renewable Energy

Strategic

- Umbrella CRADA
- CRADA/SPP
- Small Business Voucher
- NM Small Business Assistance
- Consulting
- IP License
- Sandia Science & Tech Park
- Entrepreneurial Leave
- Government Use Notices
- Open Source Software

Collaboration

Transactional

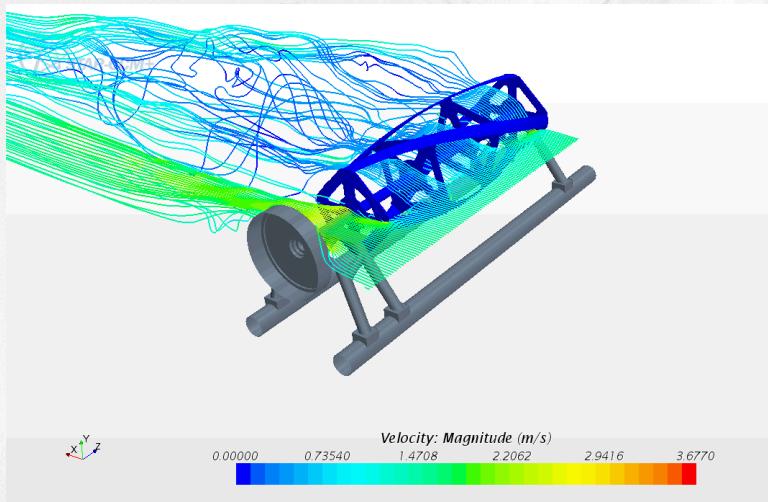


# High Fidelity Evaluation of ORPC's RivGen® Cross-flow Turbine

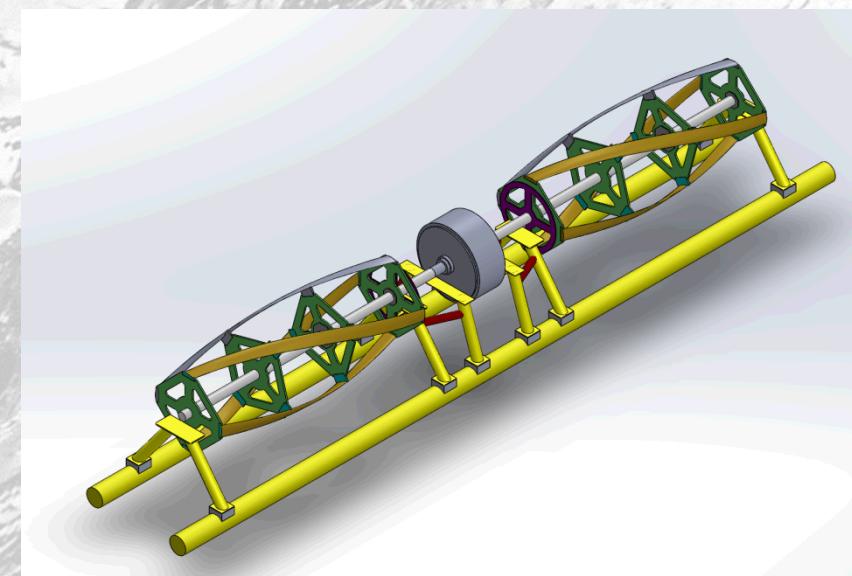
U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy

- Demonstrated significant improvements to the RivGen® TGU performance can be gained by a redesign that focuses on reducing the number of struts or streamlining their design.



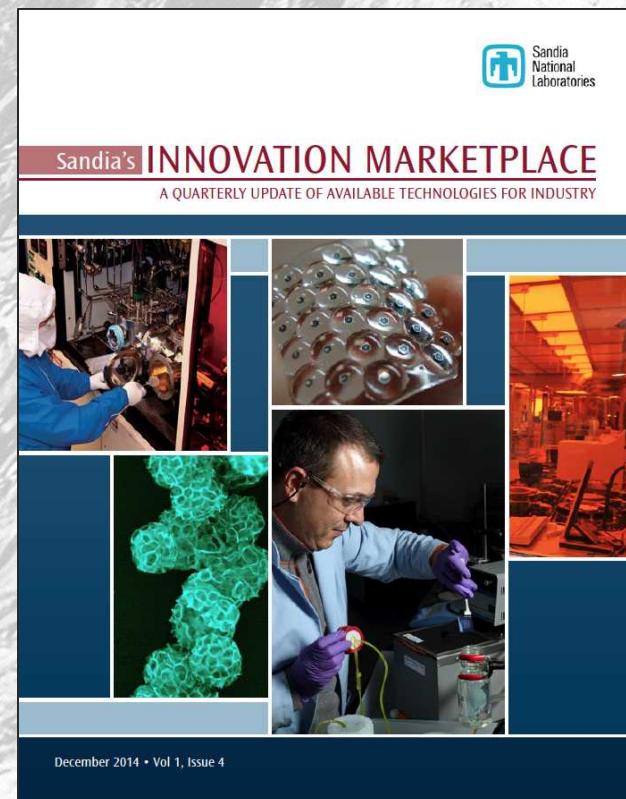
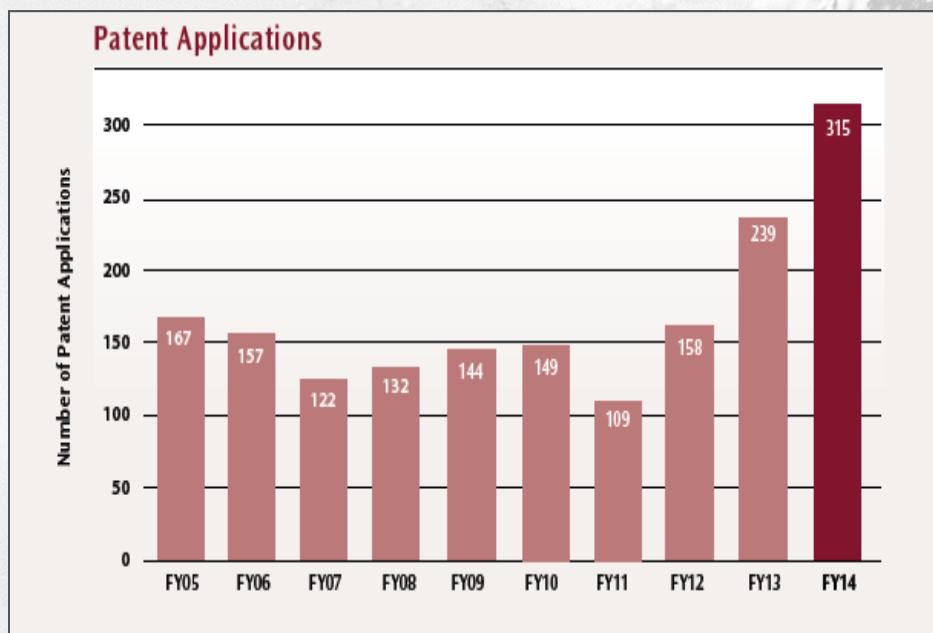
*Isometric view of RivGen® TGU*



**Vincent Neary, Principle Investigator**  
**Andrew Murphy**  
**Carlos Michelen**  
**Ryan Coe**

***“The work performed on the RivGen analysis is a nice piece of work! ...  
Thank you for all your good work!”***  
- Jarlath McEntee, Vice President of Engineering & Chief Technology Officer

**Sandia's intellectual property may be licensed for commercial use, test and evaluation, or execution of a government contract.**

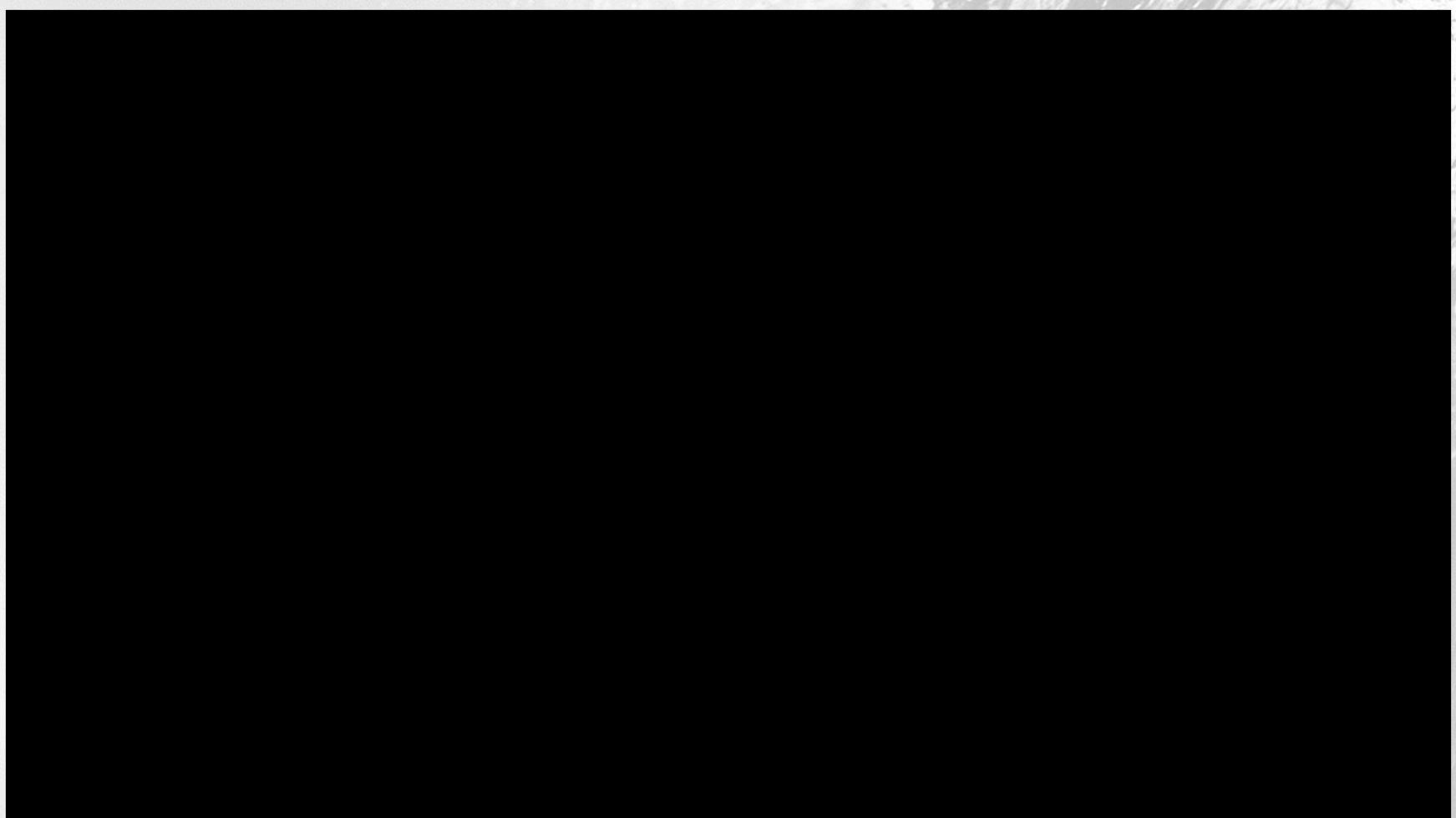


**Sandia has more than 1,200 patents and 500 commercial copyrights, most of which are available for licensing.**

- Joint program between Sandia National Laboratories and Los Alamos National Laboratory
- Since its inception in 2000, this program has:
  - Provided **\$43.7M** in technical assistance from the labs
  - Assisted **2,341** businesses
  - Created and retained **4,086** jobs
  - Supported **33** counties



*“With NMSBA’s help, we can now find the sweet spot of sustainability in wind development negotiations.” – Damon Brown*



<https://www.youtube.com/watch?v=aZbJK2jkes0>

# Sandia Science and Technology Park

## Center for Collaboration & Commercialization (C3)

U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy



- 40 companies and organizations
- 2,300+ people
- Cyber Engineering Research Laboratory
- Center for Integrated Nano Technologies



# Entrepreneurial Leave

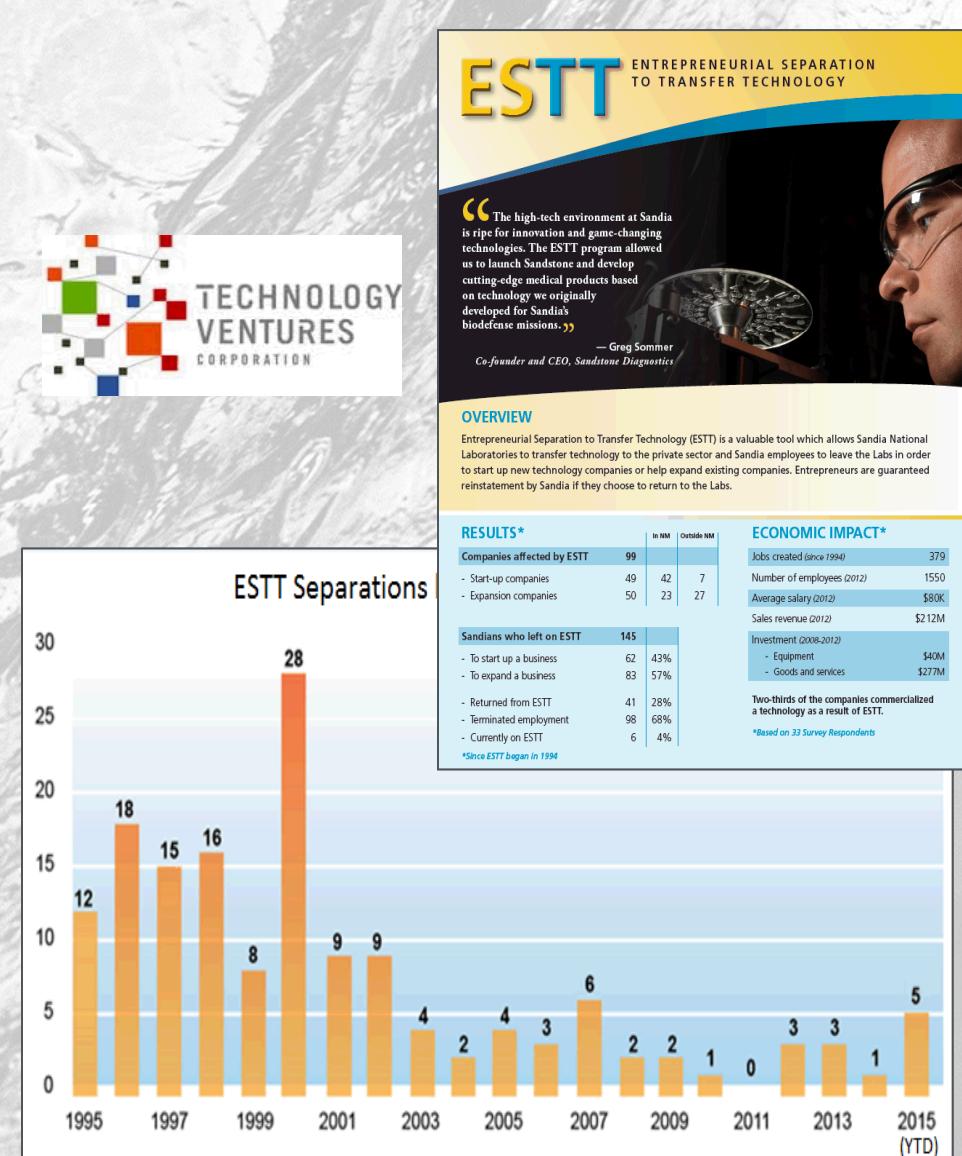
U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy



## Report of the Secretary of Energy Task Force on DOE National Laboratories

June 17, 2015





SBV is intended to further DOE's clean energy and economic development missions by increasing small business access to the expertise, competencies, and infrastructure offered by DOE's national labs.

### Pilot Goals:

- Broaden lab awareness of small business needs and technologies
- Encourage labs to develop outreach strategies to showcase capabilities
- Align lab business practices with private sector timelines

### Sandia's Role:

- One of five Lead Labs

### More Info:

- Panel on Wednesday, March 2, 1:30pm
- [www.sbv.org](http://www.sbv.org)