

# FAR WEST & MID-CONTINENT REGIONAL MEETING

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*We will be starting shortly!*



**FAR WEST & MID-CONTINENT  
REGIONAL MEETING**

November 17 - 18, 2020 VIRTUAL



# **Awards Presentation – Mid-Continent**

**Noon – 1 p.m. M.T.**

**Moderator**

**David Kistin, Sandia National Laboratories**

# **Thank you to our Judges!**

- **Ellen Cline**
- **Andy Myers**, Kansas City National Security Campus
- **Eric Payne**, National Renewable Energy Laboratory
- **Dan Powers**, CO-LABS
- **Steve Walsh**, The University of New Mexico

## **Award-Winning Categories:**

- Excellence in Technology Transfer
- Notable Technology
- Partnership
- Outstanding Technology Transfer Professional
- Regional Laboratory

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***Excellence in  
Technology  
Transfer***

## **Sandia National Laboratories**

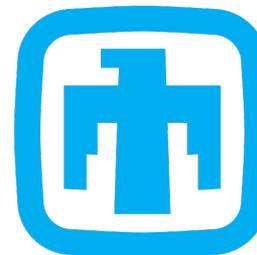
***“Small Solar Cells Transform Space Power and  
Other Commercial Markets”***

**Dr. Murat Okandan,**  
mPower Technology, Inc.

**Kevin Hell,** mPower  
Technology, Inc.

**Dr. Robert Westervelt,**  
Sandia National  
Laboratories

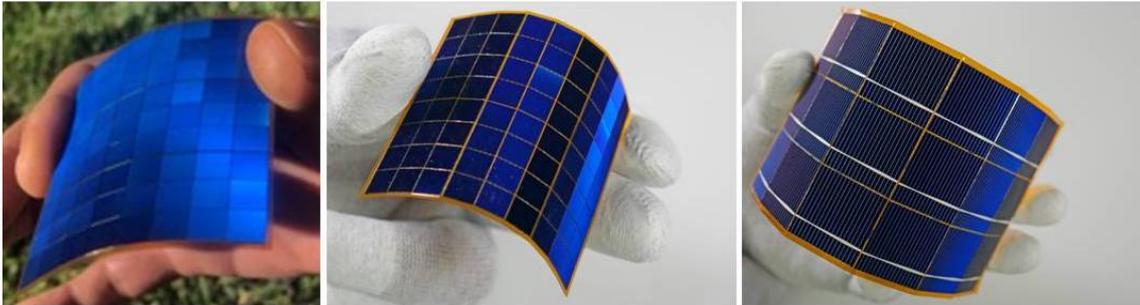
**Dr. Keith Ortiz,** Sandia  
National Laboratories



**Sandia  
National  
Laboratories**

## **Sandia National Laboratories**

### ***“Small Solar Cells Transform Space Power and Other Commercial Markets”***



Dragon SCALEs, small, lightweight, flexible solar cells that fit into and power devices or sensors of any shape or size.

Mary Monson, Sandia National Laboratories Industry Partnerships senior manager, signs a licensing agreement with scientist-turned-entrepreneur Dr. Murat Okandan, center, and Sandia Research Strategy and Partnerships Director, Andy McIlroy. (Photo by Jennifer Knight)



## **Sandia National Laboratories**

*“Modular Technology Moves Hydrogen Production  
to Where It’s Needed”*

**Dr. Robert C. Moore,**  
BayoTech, Inc.

**Scott Dyer,** BayoTech,  
Inc.

**Justin Eisenach,**  
BayoTech, Inc.

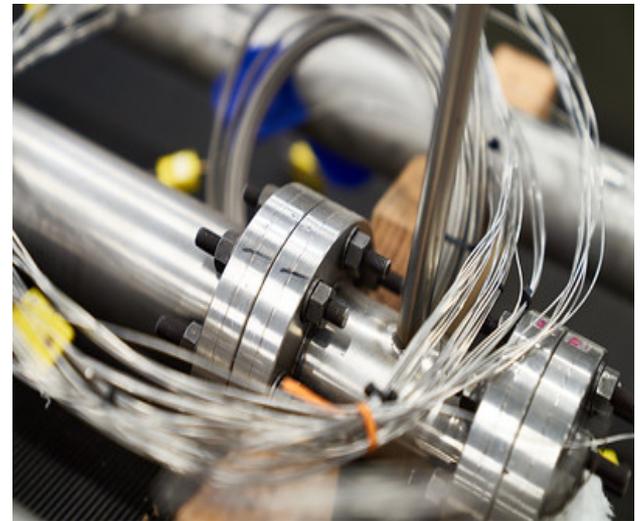
**Dr. Robert Westervelt,**  
Sandia National  
Laboratories



## **Sandia National Laboratories** *“Modular Technology Moves Hydrogen Production to Where It’s Needed”*



On-site hydrogen production units fit in standard shipping containers.



BayoTech Steam Methane Reformer utilizes a nested tube design.

**USDA, Agricultural Research Service, Plains Area**  
***“VIPR System for Removing Plastic Contamination  
During Cotton Ginning Process”***

**Dr. Matthew Pelletier,**  
USDA, ARS, Plains Area,  
Cotton Production and  
Processing Research Unit

**Dr. Greg Holt,** USDA, ARS,  
Plains Area, Cotton  
Production and Processing  
Research Unit

**Dr. John Wanjura,** USDA,  
ARS, Plains Area, Cotton  
Production and Processing  
Research Unit

**Dr. Derek Whitelock,**  
USDA, ARS, Plains Area,  
Southwestern Cotton  
Ginning Research  
Laboratory

**Carlos Armijo,** USDA, ARS,  
Plains Area, Southwestern  
Cotton Ginning Research  
Laboratory

**Dr. Paul Funk,** USDA, ARS,  
Plains Area, Southwestern  
Cotton Ginning Research  
Laboratory

## **USDA, Agricultural Research Service, Plains Area “VIPR System for Removing Plastic Contamination During Cotton Ginning Process”**



The VIPR system in action blowing the green piece of plastic detected, highlighted by the yellow arrow, out of the process stream.

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# *Notable Technology*

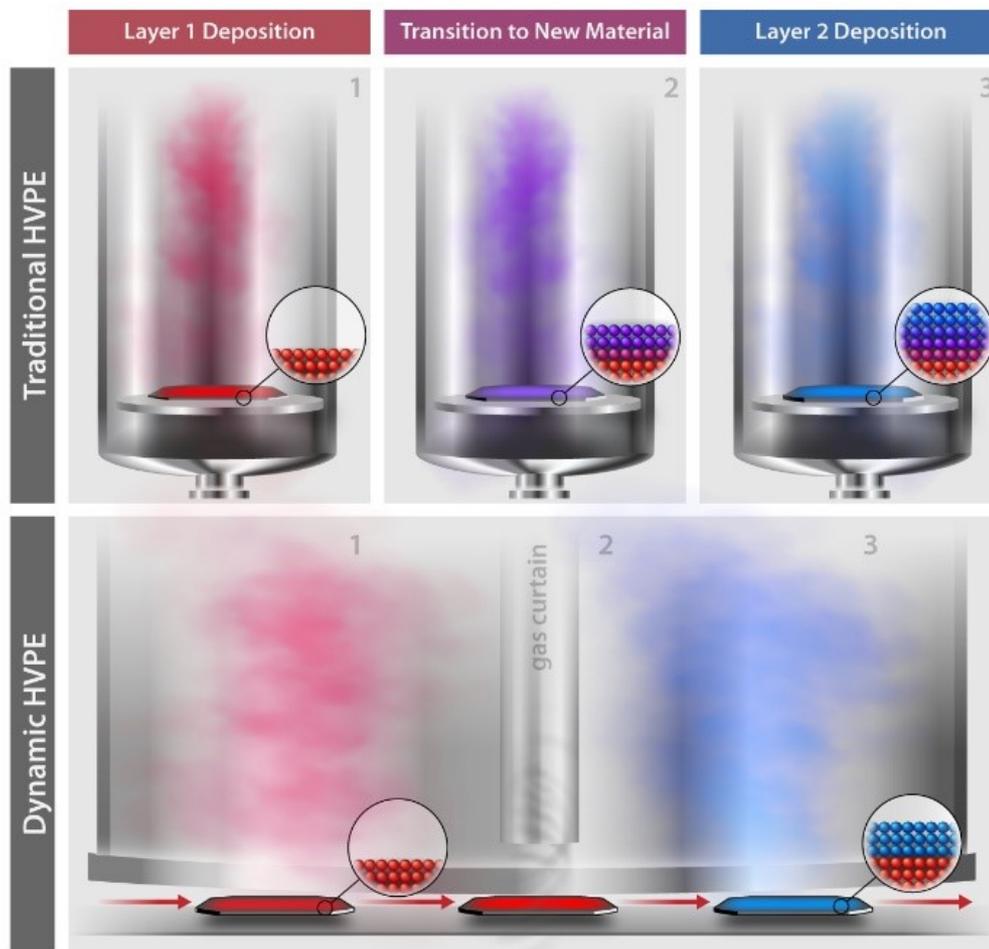
# **National Renewable Energy Laboratory** *“Dynamic-Hydride Vapor Phase Epitaxy”*

**Dr. Aaron Ptak, NREL**  
**Dr. Kevin Schulte, NREL**  
**Bill Hadley, NREL**  
**Dr. David Young, NREL**  
**Kelsey Horowitz, NREL**  
**Dr. John Simon, NREL**



# National Renewable Energy Laboratory “Dynamic-Hydride Vapor Phase Epitaxy”

By moving the substrate between chambers, each containing a different mix of precursors, D-HVPE avoids the biggest pitfall of traditional HVPE: a graded interface as gases transition.



**Los Alamos National Laboratory**  
*“Oleo-Furan Surfactant”*

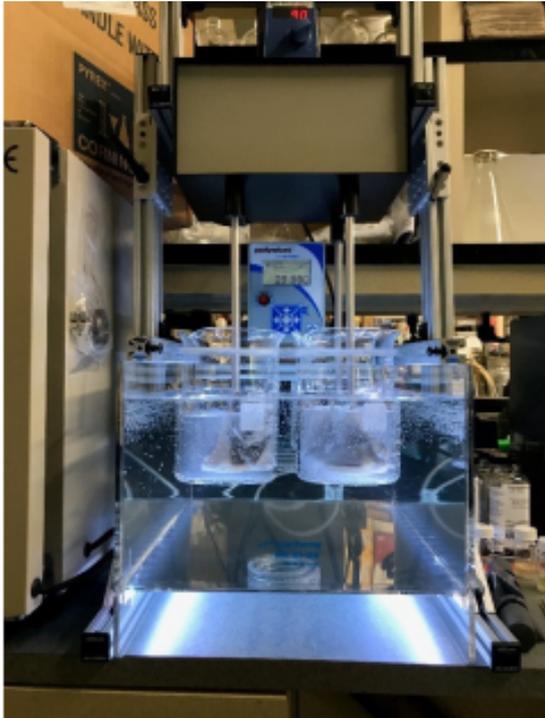
**Dr. Andrew Sutton,**  
Los Alamos National  
Laboratory



**Dr. Christoph Krumm,**  
Sironix Renewables



## Los Alamos National Laboratory *“Oleo-Furan Surfactant”*



# **NASA Johnson Space Center** *“Human Powered Ventilator”*

**Dr. James Locke**, NASA Johnson  
Space Center

**Holly Newton**, NASA Johnson  
Space Center

**Vic Untalan**, NASA Johnson  
Space Center

**Suy Le**, NASA Johnson Space  
Center

**Kevin Lee**, NASA Johnson Space  
Center

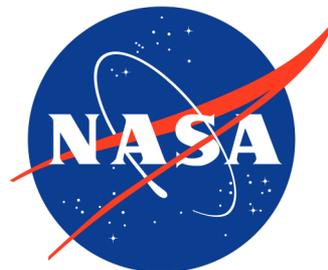
**John Garison**, Jacobs  
Technology, Inc

**Mark Schaeffbauer**, Jacobs  
Technology, Inc

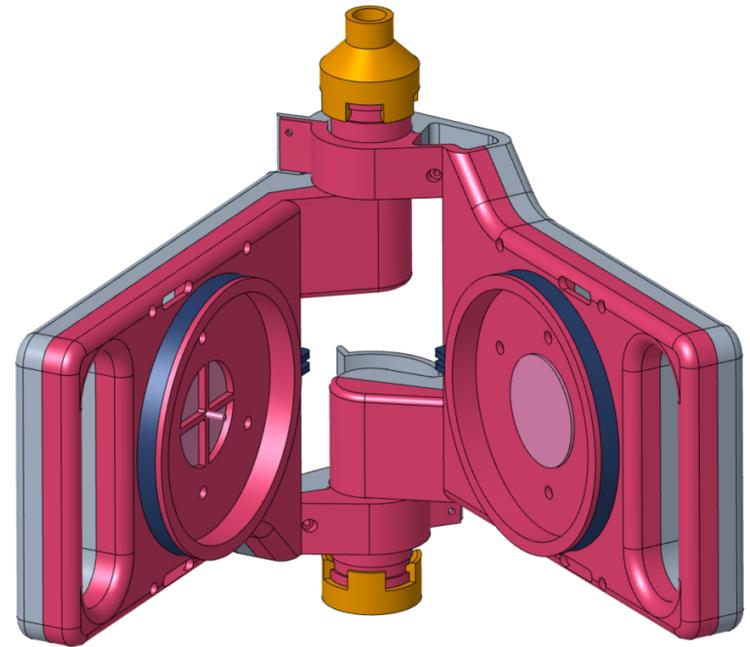
**Molly Harwood**, Jacobs  
Technology, Inc

**Skye Ray**, Jacobs Technology, Inc

**Kyra Markosian**, Jacobs  
Technology, Inc



## NASA, Johnson Space Center *“Human Powered Ventilator”*



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***An out of this world  
congratulations!***

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***Partnership***

## **Sandia National Laboratories**

*“Sandia and UPRM Partnership on Safe, Secure,  
and Sustainable Energy”*

**Dr. Evaristo J. (Tito)  
Bonano**, Sandia National  
Laboratories

**Dr. Summer Rhodes  
Ferreira**, Sandia National  
Laboratories

**Dr. Abraham Ellis**, Sandia  
National Laboratories

**Dr. Agustín Rullán-Toro**,  
University of Puerto Rico  
Mayaguez Campus

**Dr. Bienvenido Velez-  
Rivera**, College of  
Engineering UPRM



## FAR WEST & MID-CONTINENT REGIONAL MEETING

### Sandia National Laboratories

# *“Sandia and UPRM Partnership on Safe, Secure, and Sustainable Energy”*



CRADA Signing Ceremony  
University of Puerto Rico-Mayaguez  
on February 25, 2020.



Sandians and UPRM Professors  
at Sandia's National Solar  
Thermal Test Facility.

## **USDA, Agricultural Research Service, Plains Area** ***“Application of Interspecies Cross to Improve Efficiency of Genome Assembly”***

**Dr. Timothy Smith**, USDA-ARS, Plains Area, U.S. Meat Animal Research Center

**Dr. Michael Heaton**, USDA-ARS, Plains Area, U.S. Meat Animal Research Center

**Dr. Derek Bickhart**, USDA-ARS Dairy Forage Research Center

**Dr. Ben Rosen**, USDA-ARS Animal Genomics and Improvement Lab

**Dr. Adam Phillippy**, National Institutes of Health, National Human Genome Research Institute

**Dr. Sergey Koren**, National Institutes of Health, National Human Genome Research Institute

**Dr. Arang Rhie**, National Institutes of Health, National Human Genome Research Institute

**Dr. Timothy Hardy**, Hay Springs Yaks

**Dr. Peter Hackett**, Smiling Buddha Yaks

**Dr. Ed Rice**, University of California, Santa Cruz

**Dr. Richard Green**, University of California, Santa Cruz

**Dr. Ted Kalbfleisch**, University of Kentucky

**Dr. Jessica Peterson**, University of Nebraska

# USDA, Agricultural Research Service, Plains Area

## *“Application of Interspecies Cross to Improve Efficiency of Genome Assembly”*



The interspecies cattle x yak trio used to create the first genome assemblies that spanned entire chromosomes without gaps in the sequence.

# **National Renewable Energy Laboratory** *“National Laboratory Partnership with ExxonMobil Research & Engineering”*

**Anne Miller**, National Renewable  
Energy Laboratory

**Eric Payne**, National Renewable  
Energy Laboratory

**Ron Schoon**, National Renewable  
Energy Laboratory

**Lisa Baker**, National Energy  
Technology Laboratory

**Jessica Lamp**, National Energy  
Technology Laboratory

**Leah Guzowski**, Idaho National  
Laboratory



# **National Renewable Energy Laboratory** *“National Laboratory Partnership with ExxonMobil Research & Engineering”*



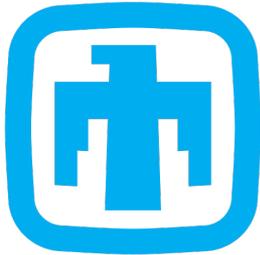
ExxonMobil signs 10-year, \$100M partnership with  
NREL, INL and NETL.

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***Outstanding  
Technology  
Transfer  
Professional***

## **Sandia National Laboratories**

**Dr. Robert Westervelt,**  
Licensing Executive



**Sandia  
National  
Laboratories**



***Dr. Robert Westervelt***  
***Outstanding Technology Transfer***  
***Professional Award Winner***

*“Over the last eight years Westervelt has developed many of the licensing templates used for Sandia’s technology transfer program and trained the tech transfer team on best practices. This includes novel ways to handle licensing to startup companies and more effective ways to address compensation for the Labs and its inventors without taking equity.”*

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***Regional  
Laboratory***

## **Sandia National Laboratories**

# ***“Sandia COVID-19 Response Combats Medical and Economic Effects of Pandemic”***



**Mary Monson**, Sandia National Laboratories

**Kerry Kampschmidt**, Sandia National Laboratories

**Joel Sikora**, Sandia National Laboratories

**Ryan Kennedy**, Sandia National Laboratories

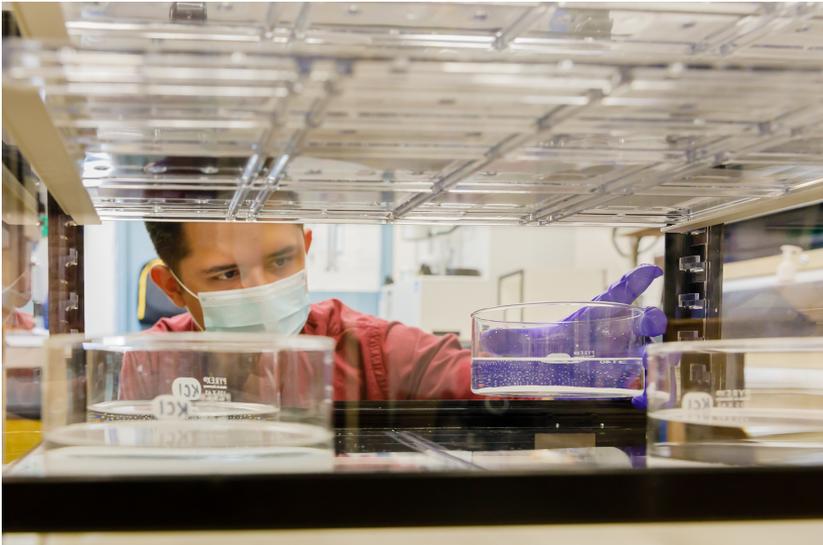
**Jason Martinez**, Sandia National Laboratories

**Genaro Montoya**, Sandia National Laboratories

**Jackie Kerby Moore**, Formerly Sandia National  
Laboratories

# **Sandia National Laboratories**

## ***“Sandia COVID-19 Response Combats Medical and Economic Effects of Pandemic”***



Sandia scientists test the effectiveness of masks and hand sanitizers through agreements and the New Mexico Small Business Assistance program.

## **Congratulations to the 2020 Mid-Continent Award Winners!**

Check out the Awards tab to learn more about these amazing T2 efforts.