



The KWI Fab Lab Team

As you might expect, it takes a wide variety of skills to bring together a project such as KWI Fab Lab Tulsa. In this article, we will get to know the members of the KWI Fab Lab Tulsa Team.

Trinna Burrows is the Executive Director of Kendall Whittier, Inc., and a Licensed Clinical Social Worker. The Fab Lab will make innovation, invention, and business development possible for those who might not otherwise have access to these technologies, machines, and education. Burrows recently commented, "This is the kind of project that will change lives." One of the biggest joys for Burrows is working with the volunteer team of professionals who comprise the Fab Lab Planning and Development Team. She is inspired by their passion, intellect, commitment, and long hours spent moving this project forward.

Micah Kordsmeier is Project Coordinator of a career training program at Tulsa's Community Action Project, a comprehensive anti-poverty agency. Kordsmeier graduated from the University of Tulsa with majors in Economics and Political Science. He has a long standing interest in creativity, entrepreneurship, community development, and the concepts of equity and opportunity. "Fab Lab can empower the economically and socially disadvantaged, but it's also an empowering tool for every segment of the community including business owners and entrepreneurs," said Kordsmeier.

Dan Moran holds BS and MS degrees in Mechanical Engineering. He is a native Tulsan with ties to the Kendall-Whittier Neighborhood that go back three generations. Moran sees Fab Lab as a valuable resource for residents and as a destination for those living outside the neighborhood. He has been motivated to volunteer with KWI and the Fab Lab Team because he believes a local lab has universal benefits and opportunities to offer Tulsans regardless of their location or background.

Josh Moseby is a local Mechanical Engineer who has great interest in community development. When he learned about the Fab Lab vision to give the general public opportunities to bring their ideas to life along with providing a means for bettering the community through technology, he was captivated by the possibilities. Moseby contributes time and energy to this endeavor

because he knows it will do wonderful things for the community.

As a husband and wife team working on the Fab Lab Tulsa project, **Matt and Diana Norris** have an opportunity to work with one another as professional colleagues. Diana Norris holds degrees in English, Political Science, and Library Studies, and currently works as a grant writer for Tulsa's Community Action Project. Her desire to realize positive changes in the lives of Tulsans has brought her to Fab Lab. The Fab Lab will be open to the public as a resource for direct interaction with technology, and will draw people toward one another into a community of learning and sharing. Norris also serves as a board member for Kendall Whittier, Inc. Matt Norris holds two degrees in Mechanical Engineering and is a licensed professional engineer currently working for Spirit AeroSystems. He is part of Fab Lab because of the technology and its potential social power for good. In his own words, "Entrepreneurship is the engine of society and has lifted countless families out of poverty." Fab Lab enables entrepreneurship from all levels of society from children to the elderly, from citizen to immigrant, from rich to poor.

Anne Pollard, of Pollard & Associates Realtors, is a native Tulsan focusing on the unique urban neighborhoods that surround downtown and works to protect and enhance Tulsa's architectural heritage. "Within my first conversation with Dan Moran and Trinna Burrows, I was hooked," says Pollard about her introduction to Fab Lab. Access to this kind of technology and support can be life changing for an entire community. The neighborhood and the clients that use Fab Lab can create entirely new revenue sources, new business and true economic development. Pollard comments, "I give my time because it is worth it."

Bob Strattan, Ph.D., P.E. is a retired University of Tulsa engineering professor and an officer of the Tulsa Engineering Foundation. He volunteered to help coordinate support from the Tulsa engineering community for the Fab Lab Tulsa Planning and Development Team when he heard the Fab Lab story and what an asset it could be for the community. This series of monthly articles in the Tulsa Engineer is one of the results. Another of his duties is the Team's liaison with Advisors to the project.

2010 CALENDAR of EVENTS

P - PDH Credit given

May 3

Oklahoma Geological Survey - P
Observatory
Amie Gibson
Oneok

May 13

EST Annual Dinner and Installation
of Officers and Board
Program by the Tulsa Historical
Society; Linda Berrey
Petroleum Club 6:00 pm;
Dinner at 7:00 pm

May 17

Underground Tunneling - P
John Hair, J. D. Hair
Oneok

May 24

Green Fuels from Algae - P
Dr. Daniel Crunkleton, TU Chemical
Engineering
Oneok

May 31

No Meeting - Holiday

June 7

Update From the Oklahoma
Engineering Board on Legislation
and Board Activity - P
Kathy Hart and Bruce Pitts
And Board Meeting
Oneok

**EST Meetings
are always open.
Visitors are always welcome.**

TULSA ENGINEER

KWI Continued...

Lori Timmons is the KWI Director of Development. The intercultural, intergenerational, and educational possibilities of Fab Lab are what are most appealing to her. "The Fab Lab will fit within the overall KWI structure, and complement existing programs which include the Youth Mentoring Program, Emergency Food Pantry, and Partners in Education," said Timmons.

Tulsa Engineering Challenge 2010

The 2010 Tulsa Engineering Challenger (TECH) was a huge success. Held Friday, March 26, over 600 students were participating in one or more of the fourteen competitions at the Riverside Campus of Tulsa Technology Center. The event provided a forum to test Tulsa area youths' math, science and engineering skills in a fun, hands-on learning environment, and was geared towards students from grades 4 through 12.

This was TECH's twenty second year! It started at Expo Center many years ago with just a few events. One of the keys is the support of the engineering societies. Each society runs an event and covers the cost of the awards when possible. The past several years, corporate support has been especially helpful. Hilti, Inc. and AEP/PSO supplied judges for two favorite events. And Spirit AeroSystem provided a significant grant this year. Chriss Chavez, doctoral student in Engineering Communications at OU- Tulsa, was chairman. Chriss says, "The teachers are the heroes of this event. They are encouraging their students to step up and explore the fun of designing and building some great devices. It amazes me of the creativity and enthusiasm of the students and their teachers." Total prize money awarded was \$6,560.00 to 117 teams and individuals.

A special thanks to the following sponsoring organizations and judges:

The Toothpick Bridge by ASCE with Allen Bates as primary judge.

The Chemical Switch by AIChE with Laura Ford and Christi Luks as judges.

The Rubber Band Powered Vehicle by ASME with Jon Liechti as primary judge. This is a very popular event and they hope to add a second lane for the judging if volunteers are available next year.

The Electric Motor by IEEE with Joe Vitali and Allen Williams as judges.

The Robot by SWE with Judy & Oscar Vera as judges.

The Ping-Pong Ball Launcher by SAME with Chriss Strunk as primary judge and a team of very dedicated volunteers.

The Paper Airplane Duration and Distance competitions by Tom Haanen of Hilti and Jeff Keener and Al Folske, recent Spirit AeroSystems retirees. Tom can use a couple of

extra judges next year. Over 110 students registered for these two events.

The Wacky Wonder Works by OSPE with Stacy Loeffler as judge with several trusted volunteers.

The Aluminum Boat by OSPE. Gaylon Pinc headed up a team of judges for the 292 entries.

The Extreme Engineering Challenge carried through the 2010 theme of "TECH Goes Green for a Cleaner Oklahoma". It was sponsored by AEP/PSO with Cayti Burch heading up a great team of volunteers.

The Mini-Math Competition by SME with Dr. Ram Mohan managing the event. Over 190 students took the ten-question test.

The Academic Olympiad, added new last year, is a very popular event. Steven Johnson, ASCE, stepped up to handle the judging of this event with almost 100 entries.

The Digital Poster Competition, also added last year, by OU-Tulsa was judged by Chriss Chavez.

During the day, a Chemistry Show is offered periodically. It was sponsored by SWE and TU with Suzanne Dodson and Abigail Wade demonstrating experiments that get the students involved in engineering principles.

Exhibitors included the Oklahoma School of Science and Mathematics, ORU and the American Welding Association.

The TECH planning committee looks forward to the 2011 event as they seek to expand the number of participating schools from 21 to at least 30.

Biography MAY 3

Speaker: Amie Gibson

Amie Gibson is a Research Scientist with the Oklahoma Geological Survey and the University of Oklahoma. She has worked and studied at the Oklahoma Geological Survey Observatory, located on Leonard Mountain in South Tulsa County, for the past twelve years.

Currently pursuing her PhD in Computer Science, Amie had the distinguished privilege of working with the late Dr. James E. Lawson, Jr., the Observatory's Chief Geophysicist for all those twelve years. Dr. Lawson, a University of Tulsa graduate was a world renowned Geophysicist who played major roles in the United States and Russia's Nuclear Test ban treaty, among achieving other significant accomplishments in the geophysics world and Oklahoma Geology as well.

Amie enjoys spending time with her husband, Marcus, and their daughters, Sydney and Payton. Along with three horses and two dogs, pursuing her doctorate, and keeping all of Oklahoma informed about the latest earthquake data, she enjoys being a public servant to the State of Oklahoma.

Biography MAY 13

Speaker: Linda Berrey

Linda Berrey is a Texas native, who lived in Wyoming and Pennsylvania before moving to Tulsa in the fall of 2006. She has worked as a newspaper reporter and copy editor,

an English teacher, a library assistant, a director of Christian education and as publications editor for the Chautauqua Institution in New York. But, it was her love of history that brought her to the Tulsa Historical Society where she has learned an amazing amount of Oklahoma history and where she is proud to be a volunteer.

Biography MAY 17

Speaker: John D. Hair

John Hair graduated from Louisiana State University in 1974 with a Bachelor's Degree in Civil Engineering. He is a recognized expert in the field of horizontal directional drilling (HDD) having been intimately involved with the development and application of HDD technology since 1980.

In his capacity as Manager of Contracts and Engineering for Reading & Bates Horizontal Drilling Company, one of the pioneers in the HDD industry, he was responsible for project engineering and management on projects throughout the world. Significant advancements for which he provided engineering leadership include the first horizontally drilled pipeline landfall and introduction of the HDD technique to the pipeline industries in Europe and Asia.

Since founding J. D. Hair & Associates in 1987, he has provided specialized design and project management services involved with HDD on large and small projects located from Alaska to Australia. He is the author of numerous technical papers and presentations on HDD and is regularly called upon to testify before regulatory bodies relative to the impact of HDD construction methods.

He is licensed to practice engineering in thirtythree states and the District of Columbia.

Biography MAY 24

Speaker: Dr. Daniel Crunkleton, PE

Dr. Daniel Crunkleton is Associate Professor of Chemical Engineering at the University of Tulsa and is the director of the university's Alternative Energy Institute. Dr. Crunkleton oversees in excess of \$1 million in externally funded research in the alternative energy field, with a concentration on transportation fuel production from algae. He is a native Tulsan, received his Bachelor's degree in Chemical Engineering from the University of Tulsa in 1995, a Ph.D. in Chemical Engineering from the University of Florida

in 2002, and a J.D. degree from the University of Tulsa in 2008. He is a licensed Professional Engineer in the State of Oklahoma.



Engineers without Borders GOLF SCRAMBLE



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Engineers Without Borders will hold their 2nd Annual Golf Scramble May 21, 2010 at Emerald Falls Golf Course, starting at 8:00 am. Cost is \$90.00 per person or \$330 per team. Cost includes Greens Fees, Range Balls, Cart, Lunch, and one door prize ticket. Play and contribute to a great cause. Emerald Falls Golf Course is at 6500 South 305th E. Ave, Broken Arrow. Contact Rob Haskins at rob@guyengr.com or (918) 437-0282 for more information.

2010 EST Installation Dinner REGISTRATION FORM

The 2010 EST Installation Dinner will be Thursday evening, May 13 at the Petroleum Club in downtown Tulsa. The Program will be presented by the Tulsa Historical Society. The deadline for reservations is noon Monday, May 10th.

MAY 13, 2010

2010 EST INSTALLATION DINNER • PETROLEUM CLUB • 601 S BOULDER – Tulsa, OK
SOCIAL HOUR 6:00 PM

DINNER 7:00 PM
PROGRAM 8:00 PM

Cocktails (cash bar)

Installation of EST Officers

Program: presented by the Tulsa Historical Society

Reservations:

Deadline is noon, May 10, 2010

The cost for the evening events is \$35.00 per person

Make all checks payable to EST. Your check is your reservation.

Please send all reservations to EST, PO Box 703065, Tulsa OK 74170-3065 or email your reservations to Bob Simmons (bobsimmons@cox.net). Please contact Bob Simmons 492-9715 for more information.

2010 EST INSTALLATION DINNER, ENGINEERS' SOCIETY OF TULSA PETROLEUM CLUB, 601 S BOULDER, TULSA, OK

Name(s) _____

Daytime Phone Number _____

Number of Reservations _____ Amount Enclosed _____

Please make all checks payable to EST and mail to:
EST, PO Box 703065, Tulsa, OK 74170-3065.

Your check is your reservation.

If you need additional reservation information, contact Bob Simmons
(492-9715; bobsimmons@cox.net)

UPCOMING EVENTS

June 7: Legislation and activity update from the Oklahoma State Board of Licensure for Professional Engineers & Land Surveyors

June 14: Nordam Tour – need prior reservation for security clearance. Watch for notice or call an EST officer

June 21: Tank Pilings in Marrero, Garland Tackett, Magellan Midstream Partners LP

June 28: Horizontal Drilling, Janet McGehee, New Dominion LLC

July 5: Holiday No meeting

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Joel Bledsoe	joel.c.bledsoe@okstate.edu
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Web site:

Barbara Wollmershauser	info@tulsaengineer.org
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TULSA ENGINEER

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P.O. Box 703065, Tulsa, OK 74170-3065
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email: info@tulsaengineer.org

TULSA ENGINEERING FOUNDATION *Members & Contacts 2010*

ACI American Concrete Institute

Phillip Scott (918) 663-1222
phillip@concreteservicescorp.com

AISES American Indian Science and Engineering Society

Daniel Faddis (918) 453-5224
daniel-faddis@cherokee.org

APWA American Public Works Association

Bill Robinson (918) 591-4349
brobinson@ci.tulsa.ok.us

ASCE American Society of Civil Engineers

Kristi Schroeder (918) 584-0347
kristi.schroeder@craftontullsparks.com

ASHRAE American Society of Heating, Refrigeration & Air Conditioning Engineers

Chuck Mayfield (918) 624-1005
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ASME American Society of Mechanical Engineers

John Matsson (918) 495-6935
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AWS American Welding Society

Ray Wilsdorf (918) 369-5824
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CSI Construction Specifications Institute

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IEEE Institute of Electrical & Electronic Engineers

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ISA Instrumentation, Automation and Systems Society

Andy Lucas (918) 599-7200
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NSBE National Society of Black Engineers

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