

Research **Leader**

Shaping the technology of tomorrow®

UDRI
UNIVERSITY
of DAYTON
RESEARCH
INSTITUTE

July–October 2017

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Research in nonmetallic materials grows with new award



Paul Childers uses a specialized tool he developed to remove elastomer tape and coating without damaging the underlying composite substrate.

UDRI's Nonstructural Materials division has been awarded a \$43 million-ceiling Air Force contract to perform a comprehensive program of research and development in non-metallic materials for maintenance, repair and manufacture of Air Force air, space and ground vehicles. The seven-year contract supports the Air Force Research Laboratory's Systems Support Division and allows UDRI researchers on campus and at Wright-Patterson Air Force Base to continue a wide variety of activities in adhesives, sealants, elastomers, textiles, composites and other materials; work they've performed for the Air Force for nearly 40 years through a series of contracts. It was awarded with two task orders totaling \$12 million. **David Phillips** serves as principal investigator on the first task, focusing on specialty materials, and **Kate Holley** serves as PI on the second task, focusing on sealants and elastomers. (continued page 7)

Composite compressed-gas tank makes debut in Dayton



UDRI Multi-Scale Composites & Polymers researchers **Jared Stonecash** (far left) and **Brian Rice** (far right), along with partners from the Composite Prototyping Center, DuPont Performance and Steelhead Composites, show off a composite compressed natural-gas tank prototype.

A prototype compressed natural-gas storage tank for the trucking and automotive industries made its debut in Dayton in July at a gathering of members of the Institute for Advanced Composites Manufacturing Innovation (IACMI). The prototype was developed under an Ohio-based initiative—led by UDRI—to develop affordable, safer and recyclable compressed-gas fuel tanks. UDRI and partners DuPont Performance Materials, the Composite Prototyping Center and Steelhead (continued page 5)

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UDRI

Holidays

Columbus Day
Monday, Oct. 9
(Government sites only)

Veterans Day
Friday, Nov. 10
(Government sites only)

Thanksgiving
Thursday & Friday, Nov. 23 & 24
Feast of the Immaculate Conception
Friday, Dec. 8
(Campus sites only)

Welcome aboard!



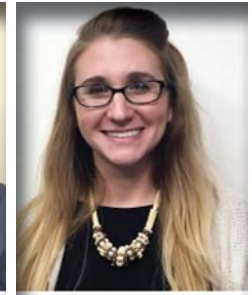
Ulises



Tristan



Eric



Lauren



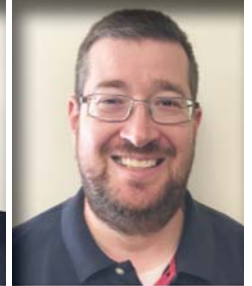
Mike



Josh



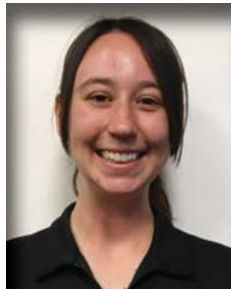
Joe



Jon



Susan



Kelsea



Julie



Tom



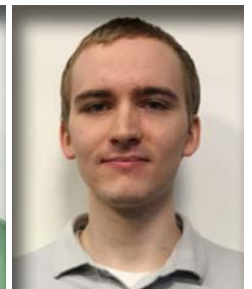
Hayley



Dane



Ben



Brenton

Family matters



Congratulations to **Jen Smith** (Sensor Systems) and her husband, Greg, on the birth of son Daniel June 8.

Daniel joins big sister Clara, 3, in the Smith family.



Congratulations also to **Michael Frede** (Aerospace Mechanics) and his wife, Jill, on the birth of their daughter, Iris, Sept. 8

Best wishes to **Kristen** (formerly Bachman) and **Mike Velker** (both in Sensor Systems), who married June 4.



(continued page 4)

Ulises Lopez joined the Aerospace Product Support Engineering group in Energy Technologies & Materials May 1 as a product support mechanical engineer. He specializes in mechanical engineering.

Tristan Linck joined the Life Management group in Structural Integrity May 1 as an associate research engineer. He specializes in electrical engineering.

Eric Troidl ('08) joined Aerospace Product Support Engineering in Energy Technologies & Materials May 1 as a product support mechanical engineer. He specializes in mechanical engineering.

Lauren Meador joined the Robotics & Lasers Technologies group in Energy Technologies & Materials May 1 as a program assistant. She specializes in business management.

Mike Woodruff joined the director's office May 8 as business process manager. He specializes in Six Sigma Black Belt and administrative business processes.

Josh Stevenson joined the Scalable Computing group in the Sensor APEX office May 15 as an associate computer engineer. He specializes in computer science.

(continued page 4)

Happy anniversary!

July

JoAnne Davis	38
Judy Showalter	33
Bill Fortener	27
John Porter	27
Ron Hoffman	24
Elaine Jansen	23
James Sebastian	22
Alisha Hutson	22
Dan Drodge	21
Angi McInturff	17
Charles Griffin	15
Cynthia Smith	14
Servane Altman	14
Bill Turri	10
Rob Gillen	9
Alan Wendel	8
Chris Meckstroth	7
Becky Hoffman	6
Lauren Robbins	5
Thomas Brown	5
Daniel Shaffer	5
Kristen Velker	5
Melissa Scrimager	3
Daniel Sciabica	3
Mark Knapke	3
Michael Crochet	3
Christopher Bruening	2
Matt Srnoyachki	2
Matt Hoyng	2
Bryan Joyce	1
Laura Homa	1
Ricky Gibson	1
Christina Duke	1
Michael Adams	1
Scott Huelskamp	1

August

Benny Connally	40
James Hierholzer	34
Geoff Frank	29
Steve Gunderson	29
Steve Zabarnick	29
Andrew Phelps	27
Dennis Buchanan	26
Michael Craft	21
Leah Lucente	21
Natasha Voevodin	18
Sangwook Sihh	18
Matt DeWitt	16
Thomas Boehnlein	14
Lingchuan Li	13
Eric Soppe	12
Alex Morgan	12
Barbara Miller	11
Mat Willenbrink	10
Ryan Stipp	9
Samantha Pressel	9

John Workman	7
Thomas Kerschner	7
Serhiy Leontsev	6
Zachary Reed	5
Tyson Back	5
Paul Kladitis	4
Jonathan Skeans	4
Ashley Rutledge	3
Mary Miller	3
Tammy Metroke	3
Doug Estep	2
Andrew Quintero	2
Beverly Dillard	2
Mallory Paulson	2
Megan Black	1
Nathaniel Rosenwald	1
Garrett Sargent	1

September

John Graham	37
Tim Klopfenstein	37
Cliff Cerbus	33
Steve Goodrich	33
Jon Borgwardt	32
Mary Galaska	32
John Buhrmaster	32
Susan Saliba	31
Brian Rice	31
Brad Pinnell	29
Trey Coleman	27
Timothy Reid	26
Jim Shardo	25
Sukh Sidhu	25
Raj Makote	16
Margo Reichman	16
Howard Smith	15
Doug Hansen	13
Rebecca Jageman	12
Kathy Hemmerick	11
Shiral Fernando	10
Jitendra Kumar	10
Ken Simone	9
Rick Scudder	8
Ben Naguy	6
Paul Lanese	6
Molly Walters	6
Christ Whiting	6
Michael Braginsky	5
Phil Ratermann	5
Colton Oda	5
Kelly Cashion	5
David Lacina	3
Dave Dunn	3
Sylvia Klosterman	2
Adam Hicks	2
Pappy Anderson	2
David Fan	2

Brian Stitt	2
Keith Grinstead	2
Kyle Singer	2
Rose John	2
Jonathan Batteas	2
Kelly McClary	1
Michele Monigan	1
Nicholas Pelini	1
Osman Radwan	1
Sara Mirmasoudi	1
Kurt Westergaard	1
Theodore Hood	1

October

Mike Aulds	42
Marlin Vangsness	32
Allan Crasto	29
Jim Blair	27
Ted Williams	27
John Bultman	25
Andrea Snell	22
Dave Allen	22
Ken Combs	19
Pamela Gregg	18
John Leland	17
Frank Harris	16
Jesse Thumser	14
Todd Jones	14
Moshan Kahandawala	12
Michael O'Connor	9
Jonathan Brown	8
Yuhui Shen	8
Patty Ward	8
Tim Pierson	7
Donald Kessler	7
Mike Spoltman	7
Nilesh Chavada	5
Jennifer Dodaro	5
Jeffrey Dennis	4
Alexander Khramov	3
Andrew Abbott	3
Josiah Dierken	3
Tim Osborn	3
Emily Meredith	3
James Vitarelli	3
Marcus Chronabery	3
A.J. Mouser	2
Judy Stauble	2
Miranda Conner	2
Bradley Ratliff	2
Jason Kaufman	2
David Koukol	2
Lindsay Rice	2
Alex Beigh	2
Peter Flick	1
Matthew Mongin	1
Thad Kacsandy	1
Benjamin Palmer	1



New employees (from page 2)

Joe Dalton joined the Robotics & Lasers Technologies group in Energy Technologies & Materials May 15 as a senior automation technician. He specializes in mechanical/manufacturing & production supervision.

Jon Boyer joined the Robotics & Lasers Technologies group in Energy Technologies & Materials May 15 as a senior automation technician. He specializes in automated testing operations.

Susan Frazier joined the Nanochemistry & Nanoengineering group in Energy Technologies & Materials May 16 as a test engineer. She specializes in chemical engineering.

Kelsea Sullivan ('17) joined the Information Processing & Compression group in Sensor APEX May 16 as an associate computational image process engineer. She specializes in computer engineering.

Julie Clapp joined Contracts & Grants May 16 as an assistant facilities security officer/assistant export administrator. She specializes in facility security.

Tom Sharp ('14) joined the Information Processing & Compression group in Sensor APEX May 16 as an associate image processing engineer. He specializes in electrical engineering and image processing.

Hayley Chow joined the Nanochem-



Mary Ann



Steven

istry & Nanoengineering group in Energy Technologies & Materials May 16 as a mechanical engineer. She specializes in fuze technology.

Dane Potter ('17) joined the Sensor Test and Evaluation group in Sensor Systems May 16 as an associate image processing researcher. He specializes in computer engineering.

Ben Natarian ('16) joined the RAPID group in the Sensor APEX Office May 16 as an associate computer engineer. He specializes in electrical engineering.

Brenton Sundlie joined the Information Processing & Compression group in the Sensor APEX Office May 25 as an associate computation image process engineer. He specializes in electrical engineering.

Adriel Fillippini joined the Information Processing & Compression group in the Sensor APEX Office May 30 as an associate computer engineer. He specializes in computer science.

Jim Disch joined the Robotics &

Lasers Technologies group in Energy Technologies & Materials June 1 as a cost analyst. He specializes in cost analysis.

Jake Delker joined the Robotics & Lasers Technologies group in Energy Technologies & Materials June 5 as an automation technician. He specializes in mechanics & historical masonry refurbishment.

Amie Laureano joined the Additive Manufacturing group & Repair Technologies in Energy Technologies & Materials June 5 as an administrative assistant. She specializes in executive administrative support.

Bart Peterson joined the Robotics & Lasers Technologies group in Energy Technologies & Materials June 12 as an automation technician. He specializes in testing services analysis (Rock).

Jason Bowser joined the RAPID group in the Sensor APEX Office June 16 as a senior computer engineer. He specializes in computer science.

Michael McLeod joined the Advanced Power Components group in Energy Technologies & Materials June 19 as an associate research scientist. He specializes in materials engineering.

Heather Chaput joined the Aerospace Materials Sustainment group in Nonstructural Materials June 26 as a research engineer/scientist. She specializes in material science & engineering.

(continued page 6)

Moving on

Phil Pfeiffer retired from the Sensor Systems division July 21 after six years with UDRI. Division head Mike O'Connor said Phil "brought a variety of skills to projects with his electrical engineering background and his ability to adapt to new challenges. He was always looking to broaden his skill set and education and apply those to his projects."

Bill Ragland retired from Multi-Scale Composites & Polymers Aug. 23 after 45 years with the Research Institute. Throughout his career, Bill has been an invaluable resource to UDRI and the AFRL/RX organization, said supervisor G.P. Tandon. "Over the past several decades, Bill has unselfishly given of himself to ensure that those around him are able to accomplish their goals and advance the science of composite materials. He has contributed and applied concepts in composite fabrication and processing; thermal, chemical and mechanical characterization methods; and developed optical, imaging and scanning electron microscopy techniques for microstructural and defect analysis. Bill is extremely thorough in what he does, paying attention to minute details, and always strives for perfection. He has always provided assistance to others with great enthusiasm, whether it was a high school student or visiting summer faculty. His extreme patience and dedication to quality work has earned him the nickname, "Mr. Perfect." For years, Bill has donated his own after-hours time to support an educational program that demonstrates and explains SEM technology to grade school and high school students in order to motivate future engineers and leaders of our local community. I want to thank him for his 45 years of service to UDRI and wish him well on his retirement."

Ron Glett retired from Structural Integrity Sept. 5 after 45 years with UDRI. Supervisor Susan Hill said there are very few things Ron hasn't done in his four and one-half decades at the Research Institute. "He has designed, developed and fabricated unique ap-

paratus, test chambers, instrumentation and systems; served as troubleshooter and repairman for electrical and mechanical equipment; calibrated MTS equipment hundreds of times; run test programs; served as a technical resource and mentored students, technicians, and engineers; and was our 'MacGyver' in the Lab. We were sad to see him go, and even considered installing a car boot so he couldn't leave!"

Marylea Barlow retired from Structural Integrity Sept. 6 after more than 25 years with UDRI. Supervisor Wally Hoppe said Marylea was a "dedicated worker and a fun-loving person with a good sense of humor. In addition to being a pleasure to work with, she has been our group's social planner, bringing a little entertainment to the life of a group of scientists and engineers. She will be missed."

Terry Wills will retire from Non-structural Materials Oct. 12 after 12 years with the Institute. Supervisor Matthew Rothgeb said Terry has been a dedicated and hardworking technician for the group. "Terry has worn many hats during his years here, and he has been key in maintaining a host of environmental test equipment; his expertise will be missed. Known by his colleagues as 'Terr-Bear' and 'T-Bone,' he will best be remembered for his love of great music (pre 1980s), his obsession with growing the perfect lawn and his poet-laureate skills, whereby he's written the perfect farewell poem for every departing co-worker since he arrived. An Air Force veteran, Terry was deployed to Vietnam, where he served honorably in keeping aircraft fueled and ready for flight. His dedication to his country and to his job with UDRI will be missed. I and the rest of the staff in the Coatings, Corrosion and Erosion group wish him the best in his retirement."

Margo Reichman will retire from the Accounting office Nov. 3 after 16 years at UDRI. Supervisor Lauren Robbins said Margo "possesses an extensive amount of knowledge on government contracts, which has allowed us to en-

sure that we properly invoice and adhere to all government policies. Her attention to detail on the cost centers and closeout documents will be missed! Margo has always had a can-do attitude, especially when it came to new systems like Banner, Costpoint and GovWin, which she helped implement in Accounting. I've loved working with Margo on the accounts receivable team. She has such a big heart and cares about everyone here at UDRI. I, along with the entire Accounting department, wish Margo much happiness and relaxation in retirement!"

Dan Knapke will retire Nov. 10 from Structural Integrity after 26 years with the Research Institute. Supervisor Phil Blosser said two words best describe Dan: "meticulous" and "tenacious." "Dan was meticulous in all he did, from strain gaging tiny specimens to repeated equipment check-outs to insure a test was conducted with the best care possible. Tenacious describes Dan's attitude during his recovery from a serious bicycling accident that resulted in multiple broken bones, surgeries and infections, and his fighting back physically so he could return to work and contribute his skills and abilities in support of our contract at Wright-Patterson Air Force Base. Dan is cheerful and has a positive attitude on life, even when life has not been easy. Dan will be missed by all."

Composite gas tank *(from p. 1)*

Composites are pursuing the use of thermoplastic materials to develop advanced-composite fuel tanks that will be lighter but stronger than steel. The program, which launched earlier this year, is one of a number of composites-based programs taking place across the country under IACMI. The national consortium of more than 100 members of academia, industry and government was launched in 2015 with a goal of increasing domestic production capacity and manufacturing jobs across the U.S. by facilitating academic and industry partnerships to spur the development of better composite materials, processes and products.

New contracts

New awards to UDRI in excess of \$500,000 in May, June, July and August include:

The Energy Technologies & Materials division was awarded a \$7.3 million Air Force award for power, energy, thermal and control technologies. **Bang Tsao** is the PI. A \$3.17 million GSA award to ETM will be used for support equipment and vehicles airborne systems; **Dan Bowman** (Aerospace Mechanics) is the PI. A \$751,356 GSA award to ETM will be used for product engineering support. **Dave Dunn** is the PI.

Multi-Scale Composites & Polymers was awarded a \$3.08 million contract from the National Center for Defense Manufacturing and Machining for research and development in advanced manufacturing for low-cost sustainment. **Adam Hicks** is the PI.

Matt Rothgeb will serve as PI on a new \$6.2 million Air Force award to Nonstructural Materials for research in advanced materials in the area of coatings, corrosion and erosion.

Sensor APEX received a \$1.39 million contract from Wyle Laboratories for advanced digital electronics research; **Bill Turri** is the PI. **David Green** is the PI on a new \$989,984 Air Force award to SAPEX for research in systems open architecture.

Sensor Systems received a \$600,000 Air Force award for research related to Open Skies. **Dan Rafferty** is the PI.

Moving up

Congratulations to the following employees, who were promoted in July: From Contracts & Grants: **Sara Schebo**; from Energy & Environmental Engineering: **Andrew Quintero**, **Pappy Anderson**, **Robert Barnes**, **Megan Black**, **John Bultman**, **Colleen Dansereau**, **Marylee Dunphy**, **Emily Meredith**, **Alan Wendel** and **Qihong Zhang**; from Multi-Scale Composites: **Michael Braginsky**, **Tom Whitney** and **Eric Zhou**; from Sensor APEX: **Patrick Hytla**, **Charles Keating**, **Bryan Miller** and **Timothy Mock**; and from Structural Integrity: **Judy Showalter** and **Jordan Speers**.

New employees (from page 2)

Carol Treon joined the Energy & Environmental Engineering Office June 30 as an administrative associate. She specializes in administration & budget.

Brian Ryall joined the RAPID group in Sensor APEX July 3 as a computer engineer. He specializes in computer science.

Bradley Siefker ('17) joined the Multifunctional Structures & Materials group in Multi-Scale Composites and Polymers July 5 as an associate research engineer. He specializes in chemical engineering.

Cassie Durning joined Aerospace Product Support Engineering in Energy Technologies & Materials Aug. 1 as an assistant administrator. She specializes in management and human resources.

Mary Ann Sebastian ('17) joined the Modeling & Simulation group in Energy & Environmental Engineering Aug. 1 as a catalyst engineer/scientist. She specializes in materials engineering.

Steven McCabe joined the Additive Manufacturing & Repair Technologies group in Energy Technologies & Materials on Aug. 1 as a research support logistics specialist. He specializes in aviation management.

Family matters (from page 2)

Congratulations to UD grads Patrick DeSimio ('08) and his wife, Lea Wise-Surguy ('10)—who also happen to be the son and daughter-in-law of **Martin DeSimio** (Aerospace Mechanics) and his wife, Terese—for their successful efforts to launch a nonprofit designed to serve their community and the environment. Cruces Creatives is a nonprofit makerspace that works to foster economic develop-



ment, further education, promote the arts and protect the environment in Doña Ana County, N.M., by providing the community with access to tools such as 3D printers, laser cutters, CNC machines, current software, wood- and metal-working tools and more for use in everything from small repairs to rapid prototyping and production.



Marylea Barlow, Jerri Bond and Mary Galaska were among the many looking heavenward Aug. 21 during the solar eclipse.



Safety corner

by Denny Gault

Due to the ever changing nature of our research environment, it may become necessary to share work space with others. This can present some unique challenges to working safely. In addition to managing your own research, incorporating the following considerations will help prevent injuries and compromised results. Communicate: Communicating directly with others working in the same space, or those who might enter the area, can be done verbally, digitally or through signage. Coordinate: Assure that any work in a shared space is compatible with other work being performed in the same space. It may be necessary to schedule with others in the work environment to prevent conflicts. Control: Make sure processes are secure to prevent anyone from inadvertently compromising research results. Whenever possible, rely on engineering or administrative controls to protect your people and others from process risk factors. Working in shared space environments can be accomplished in a safe and efficient manner as long as we stay focused on "playing well with others."

Researchers recognized

A distinguished fellow



Congratulations to **G.P. Tandon** (Multi-Scale Composites & Polymers), who has been named a fellow of the American Society for Composites.

ASC fellows are distinguished members who have made genuinely outstanding contributions to the composites community through research, practice, education and service.

Published

UDRI researchers Alex Khramov, Ollie Scott and Doug Hansen (Nonstructural Materials) published the results of an exploratory study related to corrosion-resistant coatings in the August issue of PIC Magazine. The researchers, who performed the study and wrote the paper with AFRL researchers Michael Spicer and Diane Buhmaster, investigated a specific and longstanding corrosion-resistance test for coatings, currently required by the Air Force, to explore its relevance to newer generations of coatings. The researchers also studied and developed an electrochemical impedance spectroscopy test that would serve as a viable alternative. The study was deemed important because the Air Force and other stakeholders, such as the Society for Aerospace Engineers International, are currently working on updating testing specifications.

Career development

Congratulations to **Drew Bowers** (Sensor Systems), **Adam Hicks** (Multi-Scale Composites & Polymers), **Hung Nguyen** (RITO) and **Matt Rothgeb** (Nonstructural Materials) who recently graduated from UD's Supervisory Leadership Certificate Program. The program comprises 10 days of workshop during a six-month period and is designed to help prepare participants for leadership roles.

Patent awarded



awarded to UD in July.

Congratulations to **Rich Beblo** (Aerospace Mechanics), one of the inventors on a patent for shape-memory polymer based reconfigurable skin systems

From the sponsor

Kudos to **Carl Sjoblom, Chuck Sqrow, Doug Wolf, John Workman** (Nonstructural Materials) and **Adam Long** (Structural Integrity), who received significant praise from an Air Force sponsor at Joint Base San Antonio for their contributions that proved "vital" to an investigation. The team "demonstrated outstanding dedication and professionalism," and their efforts in chemical analysis and metallography analytics were "impressive" and "invaluable," according to a letter from the sponsor.

Nonmetallic materials (from p. 1)

"Our goal is to provide research, development and expertise in nonmetallic materials, processes and new technologies designed to improve systems performance and capability, while reducing risk, cost and environmental impact," said **Dan McCray**, leader of UDRI's Aerospace Materials Sustainment group, who is serving

as principal investigator for the work. "We work closely with AFRL engineers to identify, evaluate and even develop new materials and application processes for legacy and future aircraft. We also provide assistance in transitioning those new technologies into practical application."

Nonmetallic materials such as sealants and elastomers are used throughout aircraft and other vehicles as fluid barriers, gap fillers, vibration suppression and other applications that require a nonstructural material. In this particular program, researchers will also work with adhesives and composite materials, which are used in place of metallic materials to help decrease aircraft weight.

"Nonmetallic materials are incorporated into an aircraft during manufacture under very controlled conditions, meaning that the temperature, humidity and other ambient conditions in the factory are ideal for the processes," McCray said. "But when repairs are needed to aircraft, they're made 'in the field' at one of the Air Force bases, where environmental conditions for repair are not as easily controlled. So we look for the best materials to use and determine the optimal processes needed for good repairs in the environment in which they are made."

In addition to evaluating existing materials and processes to find the best technology for each application, researchers are often asked to evaluate new or emerging materials being considered for use in the manufacture of future aircraft. "New materials being developed for the commercial market may also work well for Air Force applications, but first we need to determine whether they will meet Air Force specifications," McCray said.



Save the date!

UDRI Christmas Party
3:30 to 7 p.m.
Wednesday, Dec. 6
Dayton Marriott
1414 S. Patterson Blvd.

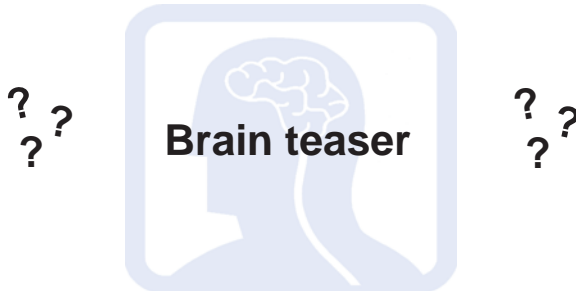
Look for invitations in email soon!



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Dayton, Ohio 45469-0101



A girl has as many sisters as she has brothers. But each brother has twice as many sisters as brothers. How many brothers and sisters are in the family?

Please submit your answer, along with your name *and division*, by Monday, Nov. 13, to Pam Gregg at pamela.gregg@udri.udayton.edu.

Answer to the March-June brain teaser: 5

Thanks to **Bill Beglin**, **Mike Bouchard** and **Keith Vehorn** (Aerospace Mechanics), **Alex Polzella** and **Mike Woodruff** (Director's Office), **Mike Hanchak** (Energy & Environmental Engineering), **Becki Glagola** and **Gerald Landis** (Energy Technologies & Materials), **Adam Hicks** and **Ray Rawlinson** (Multi-Scale Composites & Polymers), **Jonathan Rickert** (Sensor APEX), **Michael Hess** (Sensor Systems), **Dave Calder** (STIO), **Rasheed Adebisi**, **Michael Craft** and **Jordan Speers** (Structural Integrity), and **Matt Willenbrink** (Technology Partnerships) for submitting answers.

In the Public Eye

The *Dayton Daily News* and *Air Force Technology.com* wrote about a \$43 million award to Nonstructural Materials for a comprehensive program of R&D in nonmetallic materials (see cover story).

The *DDN* and *Dayton Business Journal* wrote about a new partnership between UDRI and Massachusetts-based N12 to produce a large-scale nanocomposite material.

The *DDN* wrote about the debut of a composite compressed-gas storage tank for the transportation industry, developed in a program led by UDRI (see cover story).

Bryan Miller (Sensor APEX) was quoted in a *Popular Mechanics* story, picked up by *Yahoo News* and other outlets, about an Air Force test of a new sensor pod.

Alex Morgan (ETM) was quoted in a *Wired* online story about high-rise fires.

Ohio's FastLane Manufacturing Extension Partnership, operated under UDRI's MTSA Office, made the front page of the *DDN* for their work to organize a conference to educate contractors about cyber-safety regulations.

Chad Barklay (ETM) was quoted in a *DDN* story about space probe Cassini's mission-ending crash.

UDRI was included in a *DDN* story about the top technologies coming out of Wright-Patterson Air Force Base throughout its 100-year history.

The *DDN* and *DBJ* wrote about UDRI's record-breaking research revenue in fiscal year 2017.

UDRI