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For the Faculty and Staff of The University of Texas at Arlington

Thursday, January 16, 2014



Technology uses micro-windmills to generate power for phones, homes

A UT Arlington research associate and electrical engineering professor have designed a micro-windmill that generates wind energy and may become an innovative solution to cellphone batteries constantly in need of recharging and home energy generation where large windmills are not preferred.

Smitha Rao and J.-C. Chiao designed and built the device that is about 1.8 mm at its widest point. A single grain of rice could hold about 10 of these tiny windmills. Hundreds of the windmills could be embedded in a sleeve for a cellphone. Wind, created by waving the cellphone in air or holding it up to an open window on a windy day, would generate the electricity that could be collected by the cellphone's battery.

Dr. Rao's designs blend origami concepts into conventional wafer-scale semiconductor device layouts so that complex 3-D movable mechanical structures can be self-assembled from two-dimensional metal pieces utilizing planar multilayer

Little powerhouse: Research associate Smitha Rao, above, and J.-C. Chiao, professor of electrical engineering, designed a micro-windmill that can create energy to recharge cellphone batteries or generate power for a home.

electroplating techniques.

Read more about [Rao and Chiao's micro-windmill](#).

UTARI faculty play key roles in FAA unmanned aircraft systems research

Four [UT Arlington Research Institute](#) faculty members will play key roles on the Texas team that will develop safety systems for unmanned aircraft in a project hailed as a potential economic boon for the state and nation.

The team includes Frank Lewis, the Moncrief-O'Donnell chair at UTARI and an electrical engineering professor; Kamesh Subbarao and Atilla Dogan, both associate professors of mechanical and aerospace engineering; and Brian Huff, associate professor of industrial and manufacturing systems engineering.

Their work will focus on decision and control systems, dynamic modeling, collision avoidance, positioning, and other issues related to the high performance, human interactions, and safety of unmanned aircraft, or drones, for civilian, law enforcement, military, and other uses.

The Lone Star Unmanned Aircraft Systems Initiative team, which is led by Texas A&M University-Corpus Christi, was named by the Federal Aviation Administration last week as one of the nation's six major test sites for unmanned aircraft systems.

Unmanned systems technology will be highlighted at UTARI on **Monday, Jan. 27**, during a daylong [Unmanned Systems Consortium conference](#). The event is co-sponsored by the [Arlington Chamber of Commerce's Center for Innovation](#). The nonprofit organization aims to be a catalyst for technology-based economic development.

Read more about UTA's role in [unmanned aircraft development](#).



Aerial explorers: A student at the UT Arlington Research Institute works on an unmanned aerial system called the Quadrotor UAV.



General admission tickets available today for Anderson Cooper appearance Feb. 10

General admission tickets to see CNN anchor Anderson Cooper for the [Maverick Speakers Series](#) are available starting at 10 a.m. today, **Thursday, Jan. 16**, through [utatickets.com](#).

Cooper will appear at 7:30 p.m. **Monday, Feb. 10**, at College Park Center with moderator Kryss Boyd, host and managing editor of KERA-FM's midday talk show *Think*.

Individuals who held tickets to Cooper's postponed Nov. 11 program received emails earlier this week with instructions on how to claim early tickets.

Tickets to the Nov. 11 event will not be honored. Questions should be directed to the UTA Box Office at 2-9595.

Cooper's appearance in November was postponed due to the journalist being assigned to report on the massive destruction in the Philippines caused by Typhoon Haiyan.

Cooper took his background in war correspondence for Channel One News and ABC to CNN in 2001, where he reported on major breaking news stories and handled live coverage for the military conflict in Baghdad. His show, *Anderson Cooper 360°*, has aired on CNN since 2003.

He has earned many accolades throughout his career, including several Emmys, a Peabody, and two GLAAD Media awards.

MAV PIC

Formula SAE team fifth in world

The success of UT Arlington's Formula SAE race car program across three decades earned the program a top-five ranking in the world in the latest Formula Student Combustion World Rankings, compiled by Formula Student Germany e.V.

"This is a confirmation of our leadership in Formula SAE and a well-deserved recognition of a job well done by Professor Bob Woods and his teams throughout the years," says Professor Erian Armanios, chair of the Mechanical and Aerospace Engineering Department.

UTA was fifth of 513 ranked teams around the world. The program was the highest-ranked of any U.S. program and was joined in the top 10 by the University of Washington (7) and the University of Akron (8).

The Universitat Stuttgart claimed first place, followed by Monash University, Hochschule Esslingen, Osaka University, UT Arlington, Tallinn TU UAS, Washington, Akron, Centro Universitario da FEI, and Helsinki Metropolia University of Applied Sciences

A Cappella Choir chosen for prestigious convention performance

The A Cappella Choir will give two local concerts before performing at the nation's largest music educator's convention.

The choir will perform at the Texas Music Educator's Association state convention **Thursday, Feb. 13**, in San Antonio.

The annual TMEA convention is the largest of its kind in the country, with attendance of approximately 25,000.

The A Cappella Choir was selected through a blind audition and is one of only two university choirs invited to perform.

Local concerts are set for 7 p.m. **Sunday, Jan. 26**, at St. Stephen's Presbyterian Church, 2700 McPherson Ave. in Fort Worth, and noon **Monday, Feb. 10**, at Irons Recital Hall in the Fine Arts Building.

Karen Kenaston-French, associate professor of music, directs the choir.



Earthy donation

Representatives of Pioneer Natural Resources, an Irving-based independent oil and gas company, signed a commitment of \$300,000 in support of research programs and scholarships in the Department of Earth and Environmental Sciences. At the signing were, from left, President Vistas Karbhari; E.G. "Skip" Rhodes, director of new plays and shale technology; Louis Goldstein, vice president of corporate geoscience; and Pamela Jansma, dean of the College of Science.



Winter green

Groundskeepers Robert Lee, above, and Jesus Camargo attend to flowers and ferns at the campus greenhouse. The greenhouse, located in the maintenance complex by the J.D. Wetsel Service Center, supplies plants for events around campus, such as banquets and Commencement.

MavsArt exhibit seeks submissions

The UT Arlington Libraries are accepting submissions from UTA students, staff, and faculty for the spring 2014 MavsArt exhibit.

Both 2-D and 3-D submissions are accepted. Applications to display works are accepted through **Thursday, Feb. 13**. Artwork will be displayed on the first floor of Central Library through the spring semester starting **Thursday, Feb. 20**.

MavsArt is a semester-long program that showcases the artistic talents of UT Arlington students, staff, and faculty. The first MavsArt exhibit featured cartoons, digital art, photography, Victorian hair mourning, assemblage pieces, and traditional paint on canvas.

For more information, visit the [MavsArt page](#) or email noell@uta.edu.

Nominate faculty for annual awards

Nominations are due this month to recognize outstanding research and creativity at the spring faculty meeting for [Outstanding Research Achievement or Creative Accomplishments](#) and [Distinguished Record of Research or Creative Activities](#). Both awards include cash prizes.

Submit nominations by **Friday, Jan. 17**, to the Provost's Office. Nominations will be evaluated by members of the Academy of Distinguished Scholars, who will forward a recommendation to Provost Ronald Elsenbaumer and Vice President for Research Carolyn Cason.

For details, call the Office of the Provost at 2-2103.

EXTRA CREDIT

Expand your knowledge with campus lectures, classes and programs

Thursday, Jan. 16

Partnering with Your Boss Learn skills to help you support your department's goals from your position as a secretary, executive secretary, or member of the administrative support staff. [Register online](#). Free. 9-11 a.m., J.D. Wetsel Service Center. [Human Resources](#).

Friday, Jan. 17

Statistical Training: SPSS SPSS training. Free. 10 a.m.-noon, Room 04, University Hall. Also, SAS training, **Friday, Jan. 24**. [Statistical Services](#), [Information Technology](#).

Tuesday, Jan 21

Conducting Effective Meetings Explore the basic keys to conducting effective meetings that will help your team get the right information and then get the job done. Learn insights and tools for virtual meetings. Free. 9-11 a.m., Room 200, J.D. Wetsel Service Center. [Human Resources](#).

Wednesday, Jan. 22

Effective Delegation Discover the essential skills to effectively manage projects. Learn practical tips and specific steps to boost productivity, maximize teamwork, and meet deadlines. [Register online](#). Free. 9-11 a.m., Room 200, J.D. Wetsel Service Center. [Human Resources](#).

Monday, Jan. 27

Unmanned Systems Consortium Leaders in the unmanned systems field gather to discuss their current work and the future of these advanced technologies. RSVP by **Friday, Jan. 17**, to 2-5921 or utari-events@uta.edu. 10 a.m.-4 p.m., [UTA Research Institute](#).

(For an expanded list of events, see the [UT Arlington Calendar](#).)

SPORTS NOTES

Catch the spirit of Maverick Athletics



Forward move: Freshman forward Brandon Williams totaled eight points and seven rebounds against Louisiana-Lafayette.

Mavericks on home court after games at Texas State

The basketball teams return to College Park Center after facing rival Texas State in San Marcos this week.

The women's team plays Troy at 7:30 p.m. **Wednesday, Jan. 22**, and South Alabama at 5 p.m. **Saturday, Jan. 25**. The Maverick men face Troy at 7:30 p.m. **Thursday, Jan. 23**, and South Alabama at 7:30 p.m. **Saturday, Jan. 25**.

Texas State took Wednesday night's game 68-60 against the women's team. The men's team plays Texas State on **Saturday, Jan. 18**, in San Marcos.

Both Maverick teams lost to Louisiana-Lafayette on Saturday. The women fell 66-64 and the men's team, which lost 90-70 to ULL, won 83-79 in overtime against Louisiana-Monroe last Thursday.

Sports shorts

- The Movin' Mavs wheelchair basketball team and Paralympic Sport Arlington/UTA DFW Freewheelers each were undefeated at the Pioneer

Classic at Lakeshore Foundation last weekend. UTA went 5-0 and the Freewheelers were 6-0. The Movin' Mavs play again **Jan. 31-Feb. 2** in Wichita, Kan.

- The women's tennis team takes on TCU at 3 p.m. **Saturday, Jan. 18**, in Fort Worth. The Mavs are at home against Dallas Baptist and Stephen F. Austin on **Feb. 8**, Texas A&M Corpus Christi on **Feb. 13**, and Wichita State on **Feb. 15**.

- The track teams compete this weekend in the Texas A&M 10 Team Invitational in College Station. Upcoming meets include the Colligan Memorial in Lincoln, Neb., **Jan. 25**; the Varsity Apartments Invitational in Wichita, Kan., **Feb. 1**; the Frank Sevigne Husker Invitational in Lincoln, Neb., **Feb. 7-8**; and the Sun Belt Conference Indoor Championships in Birmingham, Ala., **Feb. 24-25**.

Intramural sports entries due soon

Upcoming deadlines for intramural sports include: dodgeball, **Wednesday, Jan. 22**; billiards, **Thursday, Jan. 23**; preseason basketball, **Tuesday, Jan. 28**; basketball, **Wednesday, Jan. 29**; rock climbing, **Tuesday, Feb. 4**; and racquetball, **Friday, Feb. 7**.

See the [intramural sports schedule](#). Pick up entry forms at the Services and Information Desk of the Maverick Activities Center. For questions, call 2-3277 or email imsports@uta.edu.

(For more sports news, go to utamavs.com, uta.edu/movinmavs, or uta.edu/campusrec.)



Friday, Jan. 17

First Pitch Fundraiser Former Texas Rangers CEO and Baseball Hall of Famer Nolan Ryan is the guest speaker for this dinner to benefit UTA's baseball program. Includes the presentation of the 2013 WAC championship rings. [Tickets](#) \$50 adults; \$25 students. 6:30 p.m., Capital 1 Club, Rangers Ballpark in Arlington. Parking in Lot J; use Home Plate gate entrance. [Athletics](#).

MLK Day: Advancing the Dream Awards Banquet Nationally syndicated columnist Roland Martin is the keynote speaker. Recipients of the first MLK Living Legend Awards honored. Grammy Award-winning jazz drummer and artist-in-residence Adonis Rose performs with the Fort Worth Jazz Orchestra. [Tickets](#) \$40. 6:30 p.m., Bluebonnet Ballroom, E.H. Hereford University Center.

Saturday, Jan. 18

MLK Day: An Evening of Spoken Word Poetry Slam [Tickets](#) \$15. 7:30 p.m., Bluebonnet Ballroom, E.H. Hereford University Center.

Sunday, Jan. 19

Faculty Piano Recital John Solomons, professor of piano, performs. Free. 7:30 p.m., Irons Recital Hall, Fine Arts Building. [Music](#).

Coming up

Women's Basketball Mavericks vs. Troy, 7:30 p.m. **Wednesday, Jan. 22**; vs. South Alabama, 5 p.m. **Saturday, Jan. 25**; vs. Louisiana-Lafayette, noon **Thursday, Feb. 6**; and vs. Texas State, 5 p.m. **Saturday, Feb. 15**. [Tickets](#) \$5. Games at College Park Center. [Athletics](#).

Men's Basketball Mavericks vs. Troy, 7:30 p.m. **Thursday, Jan. 23**; vs. South Alabama, 7:30 p.m. **Saturday, Jan. 25**; vs. Louisiana-Lafayette, 7:30 p.m. **Thursday, Feb. 6**; and vs. Texas State, 7:30 p.m. **Saturday, Feb. 15**. [Tickets](#) \$5. Games at College Park Center. [Athletics](#).

Concerts Flute Choir Concert, 7:30 p.m. **Thursday, Jan. 23**; Guest Orchestra Concert with the West Virginia University Orchestra, 7:30 p.m. **Friday, Jan. 24**. Irons Recital Hall, Fine Arts Building. [Music](#).

Friday Night Films *Captain Phillips*, **Jan. 24**; *The Hunger Games: Catching Fire*, **Feb. 7**; and *Gravity*, **Feb. 21**. Free fresh-popped popcorn while supplies last; other concessions for sale. Tickets \$1, \$1.50 with credit card. 8 p.m., Rosebud Theatre, E.H. Hereford University Center. [EXCEL Campus Activities](#).

Ongoing

Gallery 76102: Beyond Memory Paintings by people with dementia are part of Memories in the Making, an art program of the Alzheimer's Association. Paintings are available through an [online auction Jan. 16-25](#). Calendars, note cards, and small matted paintings are for sale at the event. Gallery hours noon-6 p.m. Wednesdays-Saturdays. Opening reception 5-8 p.m. **Thursday, Jan. 16**. Through **Saturday, Jan. 25**. [Gallery 76102, Fort Worth Center](#).

The Gallery at UTA: Faculty Biennial XIV This exhibition shows what Department of Art and Art History professors accomplish in their creative endeavors outside the classroom. Gallery hours 10 a.m.-5 p.m. Mondays-Fridays and noon-5 p.m. Saturdays. Through **Feb. 8**. [Art and Art History](#), [The Gallery at UTA](#).

Mindful Moments Learn mindfulness techniques to help deal effectively with stress. New day. Free. 12:15-12:45 p.m., Mondays, Room 310, Ransom Hall. [Health Services](#).

Special Collections: Howdy, Mr. President! A Fort Worth Perspective of JFK Photos of President John F. Kennedy's visit to Fort Worth in November 1963 are from the historic *Fort Worth Star-Telegram* Collection in Special Collections. Gallery hours 9 a.m.-7 p.m. Mondays, 9 a.m.-5 p.m. Tuesdays-Saturdays, sixth floor, Central Library. Through **Feb. 8**. [UT Arlington Library](#), [Special Collections](#).

The Maverick Lens: Views from the Library This annual photo exhibit reflects the diversity of learning, living, and working at UT Arlington. See also "50 Years of Views." 8 a.m.-7 p.m., sixth floor parlor, Central Library. Through **March 5**. [UT Arlington Library](#).

Visual Resource Commons and Gallery The Jonathan A. Campbell and Tanya G. Dowdey African Art Collection is a multi-dimensional collection of 11th-20th century art and artifacts. Free. 8:30 a.m.-5 p.m. Mondays-Fridays, Suite 2109, Fine Arts Building. [Art and Art History](#).

Planetarium The spring schedule includes new shows *Back to the Moon for Good*, *Exoplanets*, and *Molecularium*, plus returning favorites *Pink Floyd* and *Spacepark 360*. [Planetarium](#).

(For an expanded list of events, see the [UT Arlington Calendar](#).)



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