

UDARF

UNIVERSITY OF DELAWARE ASSOCIATION OF RETIRED FACULTY



NOVEMBER 2014

QUARTERLY NEWSLETTER



Blue Hens Veterans placed 684 U.S. flags on The Green Nov. 11 in remembrance of the 6,838 service members who have died in Iraq and Afghanistan since 9/11. Photo by Evan Krape

Dear UDARF Members,

In the first week of October, Judy and I had the pleasure of visiting Acadia National Park in Maine, the only national park that was donated by private citizens to the nation. The trees were brilliant in their bright reds, oranges and yellows, and the ponds remain as crystal clear as in centuries past. As I write this column, our local trees are just reaching their bright fall clothes, and White Clay Creek is clear—all 2 feet deep of it. Fall is a time of both shedding leaves and preparation for renewal, something all retirees can appreciate.

Our next two speakers represent these trends. Ray Wolters will have recounted his fulfilling academic career in his “My Intellectual Journey” presentation, Oct. 30 (*Please see page 3*). And on Dec. 2, Debra Norris will soon talk about the preservation of photography around the world. She will also provide guidance on what photographs actually represent to us, and how we can care for these wonderful pictures of the past. Perhaps we will be the last generation to have paper copy photographs, but not the last to want to retain photos in some form.

Speaking of photos, I noticed a recent one in UDaily honoring the latest 10 alumni Presidential Citations for Outstanding Achievement. Half of these are minorities and women, and include the school superintendent of the Portland, Maine, schools, an airport designer, a director for ecosystems research for the EPA, the chief operating officer for the New York Energy Research and Development Authority, the director of Multicultural Recruitment for the University of Pennsylvania and a recent president of the Delaware Nurses Association. They are just some of the 233 alumni who have received the Presidential Citation over the years, and among the best of our current 165,000 living graduates. We can be proud that we had a part in preparing these excellent former students for their successful careers.

Best Wishes,

Bob Taggart, President

Mark your calendar!

Debra Hess Norris, chairperson of the Department of Art Conservation, will speak at the next UDARF luncheon, scheduled from 11:30 a.m.-1:30 p.m., Tuesday, Dec. 2, at Clayton Hall.

Reservations are due one week before the event and may be made online or using the enclosed form.

For the coming year, luncheons are scheduled on March 3, with George Watson, dean of the College of Arts and Sciences and professor of physics and astronomy; and on May 5, with President Patrick Harker.

The spring “My Intellectual Journey” talk will be presented on April 9 by S.B. Woo, professor emeritus of physics and astronomy.

Keep up to date by visiting the UDARF website at <http://sites.udel.edu/udarf/>.

Research highlights shift to new form of power generation



Willett Kempton discusses innovative work in vehicle-to-grid technology at

Imagine your car performing double duty as a part of a mini power plant, taking power from and giving it to an electric grid. And imagine getting paid for the service.

Willett Kempton, professor in the College of Earth, Ocean, and Environment, shared his vision for grid-integrated vehicles at the October luncheon meeting of the University of Delaware Association of Retired Faculty in Clayton Hall.

The inventor of innovative grid-integrated vehicle technology, Kempton also serves as research director for the University's Center for Carbon-free Power Integration.

During his presentation, "Grid-Integrated Electric Vehicles: Enough Storage for Large-Scale Variable Generation," Kempton noted that there is a very rapid shift toward a new form of power generation based primarily on wind and solar energy production.

"I want to frame the idea for you, that the grid is great for adjusting to fluctuations in power, and to talk about electric vehicles in the context of the expanding generation of wind and solar power," Kempton said. "I'm developing storage, but in the interest of full disclosure, let me say that wind and solar generated electricity don't really need storage, at least for a while."

Currently, as demands on electricity systems fluctuate, large generators ramp up and down quickly to adjust for the changes and to balance electricity supply and demand, Kempton said.

"All power generation is intermittent, and in that respect wind and solar are not any different than coal or natural gas," Kempton said. "A typical coal and natural gas or coal power plant in commercial operation has an unscheduled outage rate of about five percent. If we had to have all electric power generation 100 percent reliable, we wouldn't be able to keep the lights on."

Kempton noted that electric power plants are connected to a grid to make up for loss of generation due to an outage at an individual power plant.

Wind and solar sources also comprise a large and growing segment of power production, Kempton said.

"People believe that if we get wind and solar power, this is going to lead to austerity, and that they will not be able and use all of their electric appliances," Kempton said. "The truth is we will have a lot more energy by moving from fossil fuel to wind and solar power."

Because variable generation from wind and solar sources fluctuates according to natural forces, a system that matches variable generation to our consumption of power, the "load," needs to be developed, Kempton said.

"The cheapest way is through transmission, rather than storage," Kempton said. "If you disperse generators and connect them by transmission, you create a pool of resources and enlarge the area managed by a single entity in technical terms of balancing load."

Because the management of any projected increase in solar power generation will require more storage, vehicle-to-grid technology offers an important new tool for stabilizing the nation's electricity supply and developing energy independence, Kempton said.

"At times, there really isn't enough electricity on the system, and this is when operators would like to take electricity out of storage devices and put it back on the electric grid," Kempton said. "There is a lot of inherent storage available in electric vehicles, and batteries are the cheapest and most versatile way to store electricity."

The electric vehicle-to-grid technology system developed at UD responds faster to fluctuating energy needs, costs less to operate and doesn't burn fuel or create pollution, Kempton said.

"If a person buys an electric vehicle, they usually drive it about an hour each day. The vehicle is idle for the remaining 23 hours," Kempton said. "We are going to use this electric storage device for the other 23 hours, and we will pay them for the use of it."

Kempton said that electric vehicle-to-grid systems developed at UD includes a vehicle smart link in the car that controls charging and reports back to the server.

"The second component, the electric vehicle supply equipment developed by the College of Engineering's Department of Electrical and Computer Engineering, goes in the car and monitors what is going on with the car and the batteries, and communicates that information to the charging station and ultimately to the aggregator," Kempton said.

Electric vehicles used on the UD campus are modified and tested in a laboratory located on the Science, Technology and Advanced Research (STAR) Campus, Kempton said.

*Article by Jerry Rhodes
Photo by Kathy F. Atkinson*

My intellectual journey

Raymond Wolters shares a half-century of teaching, research

Coming from the Golden State to the First State in 1965, Raymond Wolters embarked on a half-century-long teaching, research and writing career at the University of Delaware.

Wolters, the Thomas Muncy Keith Professor Emeritus of History, shared his experiences with retired faculty members during a “My Intellectual Journey” lecture sponsored by the UD Association of Retired Faculty Oct. 30 at the Courtyard Newark-University of Delaware.

“From 1944 until 1956, I attended Catholic schools in Los Angeles County, and my life revolved around activities at either the schools or my local parish,” Wolters said. “At St. Francis High School near Pasadena, most of the teachers were Capuchin priests from Ireland, and never since have I known a better company of men.”

Wolters said he dedicated his book, *Dubois and His Rivals*, published by the University of Missouri Press in 2003, to the memory of five of these teachers.

Having earned an undergraduate degree in history at Stanford University in 1960, Wolters arrived at the University of California, Berkeley, with every intention of being a successful law student.

“My parents were pleased when I enrolled as a student at Boalt Hall but they were not pleased, to put it mildly, when I decided after only one month in law school to transfer into Cal’s graduate program in history,” Wolters said. “My parents had both worked in business, and neither could understand why I wanted to become a professor instead of a lawyer.”

When it came time to write a doctoral dissertation, Wolters asked Charles Sellers, professor emeritus of history at Cal, to be his major professor.

“I did so because Prof. Sellers was both an outstanding historian and a civil rights activist who was then serving as the president of the Berkeley chapter of the Congress of Racial Equality (CORE),” Wolters said. “I joined Prof. Sellers in one demonstration in Berkeley, where I carried a sign that urged blacks, ‘Don’t Buy Where You Can’t Work.’ I also participated in other civil rights demonstrations in Oakland and San Francisco.”

Invited to join the UD Department of History in 1965 by the late John Munroe, then department chair, Wolters began a career that spanned nearly five decades before retiring this year.

Early books by Wolters included works on blacks and the Great Depression and the black college rebellions of the 1920s.

Wolters noted that his best-known book, *The Burden of Brown: Thirty Years of School Desegregation* (University of Tennessee Press, 1984) won a notable award and drew both praise and criticism from reviewers.

“I told the story of how education had fared in the five school districts, including Wilmington, Delaware, that were



Raymond Wolters discusses his academic career in the ‘My Intellectual Journey’ series.

ordered to desegregate as a result of the U.S. Supreme Court’s 1954 *Brown v. Topeka* Board of Education decision,” Wolters said. “The prevailing approach among historians had been to hail *Brown* as a landmark that sounded a death knell for racial segregation, but little had been written about how school desegregation had actually worked out.”

One reviewer remarked that Wolters’ writing style resembled that of Sgt. Joe Friday, the hard boiled detective of the TV show *Dragnet* known for his “just the facts, ma’am approach.” Others praised the book for showing what the ruling meant to “real people in real schools.”

Another reviewer wondered whether the book’s author was a blasphemer or a voice of loyal opposition to the reigning consensus in favor of busing to achieve racial balance.

“In 1985, the American Bar Association, which previously had supported everything the federal courts had required in the name of desegregation, gave its annual Silver Gavel Award to *The Burden of Brown*,” Wolters said. “The awards committee said ‘the award was made for literary merit and for shedding interesting light on legal history and issues.’”

Wolters, whose approach to research had been to search collection after collection in person, was forced to pursue an alternative approach when sidelined with a serious illness in 2010.

“I then scrapped my plans to go on the road for interviews and for research in primary sources because it was the only thing I could do at the time,” Wolters said. “I discovered a trove of information on the World Wide Web while waiting five months for a lung transplant at the Duke University Medical Center.”

Wolters’ latest work, *The Long Crusade: Profiles in Educational Reform* (Washington Summit Publishing, 2014), is due for release on Dec. 5.

“The body of this book consists of biographies of nine of America’s most prominent school reformers, and of three critics of school reform,” Wolters said. “My intent is to provide readers with enough information to draw their own conclusions as well as to understand my views.”

Looking back from the perspective of half a century, Wolters reflected that coming to UD was the best choice he could have made.

“I am grateful to the University of Delaware for giving me the opportunity to teach good students and the freedom to disregard some of the academic orthodoxies of our time and to write history as I saw fit,” Wolters said. “I believe that, for me personally, there probably was no better university anywhere.”

Article by Jerry Rhodes
Photo by Wenbo Fan

QUARTERLY NEWSLETTER

In Memoriam

Allen M. Granda, who taught biological sciences at UD from 1965 until his retirement in 1999, died July 7, 2014. A neuroscientist whose research and teaching focused on vision and ophthalmology, he was a research pioneer in the study of turtle vision.

Conrad R. Pope, professor of animal and food sciences from 1986 until his retirement in 2011, died July 25, 2014. He was a key member of the poultry infectious disease team at UD and co-taught classes with faculty in the Department of Biological Sciences.

Mark J. Manno, a long-time leader in the Cooperative Extension Service, died Sept. 13, 2014. He served as state 4-H program leader and in 2008 received the University's Ratledge Family Award for Delaware Public Service.

William Moody, who taught math and education for 41 years at UD, died Oct. 22, 2014. He created and ran the Delaware Math League and the Solve-It math summer program for international youth.

Jon Olson, a member of the chemical engineering faculty for 40 years until his retirement in 2002, died Oct. 26, 2014. He served as associate and acting dean of the College of Engineering and was the first president of the Faculty Senate.

New research funds for retirees

UDARF's Executive Committee has approved a new \$2,000 Research Fund, for which only retirees are eligible. The application form and process are available on the UDARF website at <http://sites.udel.edu/udarf/>.

UDARF

In Brief

Fleda Brown, professor emerita of English and former poet laureate of Delaware, gave a reading from her newest collection of poems Oct. 29 on the Newark campus. The collection is entitled *No Need for Sympathy*.

Richard Davison, professor emeritus of English, discussed "Actors on Acting" during a presentation Sept. 22 at the Newark Senior Center.

Leslie F. Goldstein, Judge Hugh M. Morris Professor Emerita of Political Science, presented the Constitution Day Lecture at the College of the Holy Cross, Worcester, Massachusetts, on Sept. 17 on the topic, "The U.S. Supreme Court and Racial Minorities."

Lou Hirsh, retired director of admissions, represented the Admissions Practices Committee of the National Association for College Admissions Counseling (NACAC) in a presentation entitled, "Principles, Ethics, and Shades of Gray," at the Chief Enrollment Officers' Forum at NACAC's 2014 Annual Conference in Indianapolis, Sept. 18-20. He also presented "Think Like a College Admissions Committee" at Sussex Technical High School in Georgetown, Delaware, on Oct. 23.

The fall 2014 issue of the *Virginia Quarterly Review* features an article about the late **Thomas W. Molyneux**, who was a member of UD's English department faculty from 1967 until his death in 1977. The article, which may be found at www.udel.edu/002389, was written by Stephen Goodwin, author of several novels and two nonfiction books.

John Weiss, retired professor of art, paid tribute to his mentor Minor White in an article, "Minor White and Me," published Sept. 17 in *The Getty Iris*, the online magazine of the Getty. In the article, which may be found at www.udel.edu/002390, Weiss describes how the renowned American photographer changed his life.

UDARF

UNIVERSITY OF DELAWARE ASSOCIATION OF RETIRED FACULTY

C/O DANA BRITTINGHAM
OFFICE OF THE PROVOST
UNIVERSITY OF DELAWARE
NEWARK, DE 19716

LUNCHEON MEETING RESERVATION FORM

Luncheon Meeting
Tuesday, Dec. 2, 2014
11:30 A.M., Clayton Hall

**Reservations are due one week in advance
of the luncheon.**

YOUR NAME: _____ \$17.00

GUEST: _____ \$17.00

TOTAL AMOUNT ENCLOSED \$ _____

Reservations can be made in either of two ways: by mail or electronically.

By mail: **Send check payable to the University of Delaware with this form**

Electronically: Go to www.udel.edu/UDARF, click on *Reservation for Next Luncheon meeting*

All reservations due by Nov. 25, 2014

E-MAIL ADDRESS (*only if new*): _____

Please use remaining space for news and address change.

Enjoy Courtyard Newark at the University of Delaware

Bill Sullivan, managing director of the Courtyard Newark on the Laird Campus, has generously renewed a special rate for UDARF members, their families and friends.

The special rate is half off of the prevailing room rate for the dates of travel, based on room availability. Reservations must be made personally with Bill at 302-218-4541 or billsull@udel.edu. Do not ask at the hotel main desk.