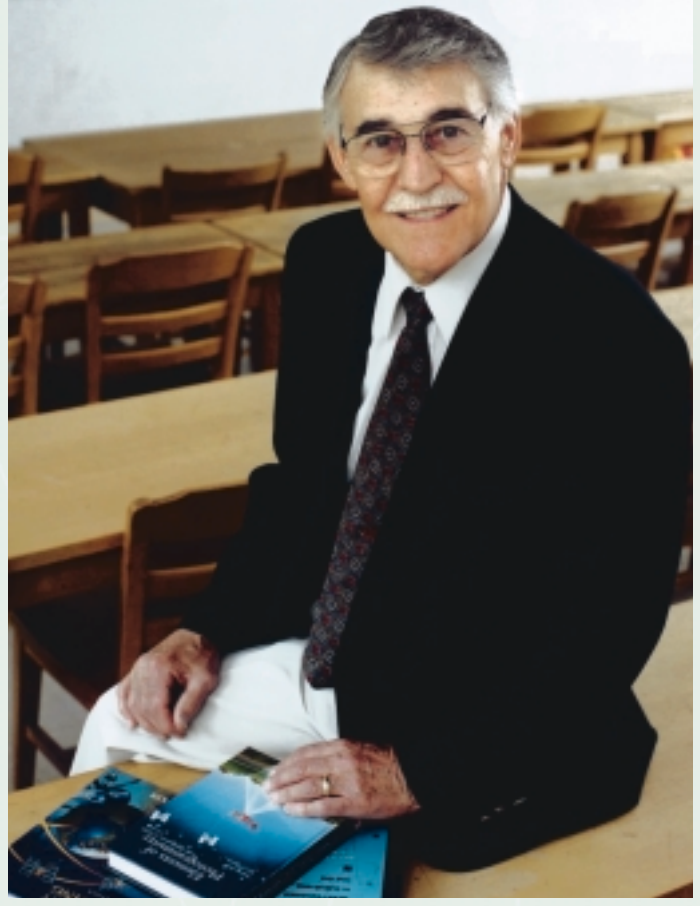


Success  
and  
Significance  
in  
Surveying,  
Mapping and  
Photogrammetry



Presenting the Paul R. Wolf Professorship  
at the University of Wisconsin-Madison

surveying  
mapping  
photogrammetry



COLLEGE OF **ENGINEERING**  
UNIVERSITY OF **WISCONSIN-MADISON**

Surveying, at its fundamental level, is measuring with precision and care. To measure something you give it definition, scope and meaning.

*“To this day, I recall the surveying course as perhaps the best course I ever took due to content and most particularly Professor Wolf. As a teacher, he was great at engaging students and really getting them excited about the subject. He prepared me for my subsequent teaching tours at the Army’s Defense Mapping School, and at West Point.”*

—Scott Loomer, PhD, PE  
Technical Advisor for Geospatial Sciences, National Imagery and Mapping Agency  
Washington, D.C.,  
formerly, Professor of Geospatial Information Science  
at the United States Military Academy, West Point

Few individuals have given as much definition and meaning to the field of surveying, mapping and photogrammetry as Professor Emeritus Paul R. Wolf of the Department of Civil and Environmental Engineering at UW-Madison.



Today, classrooms in Engineering Hall no longer echo with Professor Wolf’s carefully crafted lectures about surveying, mapping and photogrammetry. However, the information he shared, and the drawings he created in multi-colored chalk have left their mark on his students.

Many of those former students, colleagues, industry leaders and alumni are pleased to present the Paul R. Wolf Professorship. You are invited to join in this effort to recognize an outstanding engineer, mentor and teacher.

*“I owe so much, regarding where I am now, to his influence. When you look back on your training, you see how you set your direction and developed your professional aspects and curiosities. So much of my direction came from being one of Paul’s students and having him as my advisor. I will never forget his persistence and encouragement, which gave me the self-confidence to know that I could succeed not just as an engineer, but as a woman in engineering.”*

—Ruth E. Neilan, Director, Central Bureau of International GPS Service  
Jet Propulsion Laboratory, NASA; California Institute of Technology, Pasadena, CA

## Where does inspiration come from?

**F**or many of us, inspiration stems from our roots. Some people are inspired from those around them, some from nature. Professor Wolf grew up on a farm near Mazomanie, Wisconsin. He loved the outdoors and reasoned that the field of civil engineering would offer many outdoor opportunities.

After earning his bachelor's degree in civil engineering from the University of Wisconsin-Madison, he began his career in 1960 as a highway engineer with the Wisconsin Department of Transportation. In 1963, he joined the UW-Madison faculty as an instructor. There, he was mentored by such legendary engineering faculty as Eldon C. "Red" Wagner and department chair Arnold T. Lenz.

After receiving his PhD in 1967, Professor Wolf was appointed an assistant professor of civil engineering at the University of California-Berkeley. He stayed at Berkeley until 1970, when he returned to his alma mater. Through the dedicated efforts of Professor Wolf and colleagues such as James L. Clapp, Ralph W. Keifer, Thomas M. Lillesand, David F. Mezera, Frank L. Scarpace, James P. Scherz, Alan P. Vonderohe, among others, the Wisconsin surveying, mapping and photogrammetry program gained an international reputation for quality. Its students received the finest training and mentoring available anywhere.

This success was due to the commitment that faculty members

*"He was the primary inspiration for me becoming a professor. When I was wrapping up my bachelor's program, I wasn't sure what to do. He convinced me to go to graduate school, and later, he invited me to be the co-author of one of his texts. He had faith in me. I attribute what I am doing today to his influence and guidance."*

—Bon A. Dewitt, PhD  
Associate Professor,  
University of Florida, Gainesville,  
Department of Civil  
and Coastal Engineering  
Geomatics Program



*"Paul not only acted as an advisor and scholar, but also as a mentor, a friend, and a father. He was always there when I needed him. Since leaving Wisconsin, he has mentored me from afar, as I became a new surveying faculty member at Penn State. Quite frankly, in my everyday dealings with students I try to model my interactions in the same manner that he did with me."*

—Charles D. Ghilani, PhD  
Surveying Program Chair, The Pennsylvania State University



had to their students. “Through the years I had many wonderful relationships with my students; not only as ‘teacher-to-student’ but also as ‘friend-to-friend,” Professor Wolf recently said. “I remain very close to many of them and I enjoy following their careers. They now hold distinguished positions in education, government and business. I am very proud of them.”

Professor Wolf retired in 1993 and now works as a consultant. He enjoys fishing and spending time with his family. He supports Department of Civil and Environmental Engineering activities and faithfully follows the Badgers.

### How do you measure the impact of an excellent teacher?

To watch Paul Wolf draw a three-dimensional earth in chalk is a wonder. Some

claim he must have a double-jointed elbow to scribe such perfect circles freehand.

When dedicated to teaching and mentoring students, such artistic skill is an indicator of clear thinking, a well-organized presentation, and an in-depth knowledge of the subject matter. It’s what you might expect from a man whose career in civil and environmental engineering has spanned more than four decades.

The finest teachers are those who prepare their students not only for meaningful work, but for meaningful lives. Professor Wolf has helped educate hundreds of students at the UW-Madison. He has also been indirectly involved in the education of thousands of students in the U.S. and worldwide, through his standard-setting textbooks and study guides. His widely acclaimed texts include: “Elements of Photogrammetry,” “Elementary Surveying” and “Adjustment Computations: Statistics and Least Squares in Surveying and GIS.”

“Paul Wolf was one of the most influential professors in my life. I learned from him a lot more than just the nuts and bolts of engineering, photogrammetry, and surveying. I learned the intangibles too — people skills, treating others with respect, and fairness and honesty. I found him to be a remarkable teacher of the ‘lessons of life.’”

—Michael R. Duckett, PE, RLS  
Executive Director  
Miller Park District

He has shared his expertise as an invited lecturer at national and international sessions of the American Congress on Surveying and Mapping, American Society of Photogrammetry, American Society for Engineering Education and the International Society for Photogrammetry.

Professor Wolf has also presented papers and lectures at numerous state and regional conferences, including the Wisconsin Surveyors Institute, the Wisconsin Society of Land Surveyors, Arizona Land Surveyors Conference, Oregon Surveying and Mapping Conference, the Joint Conference of Indiana and Illinois Land Surveyors, Pennsylvania Land Surveyors Conference, the Florida Society of Professional Land Surveyors Meeting and the Annual Convention of Professional Land Surveyors of Ohio, among others.

Throughout his career, Professor Wolf collaborated with many commercial surveying and mapping firms and governmental and regulatory agencies, including the California and Wisconsin Departments of Transportation, U.S. Bureau of Mines, U.S. Department of Interior and U.S. Department of Justice. A substantial portion of Professor Wolf's consulting activities involved developing photogrammetric procedures for forensic applications, a field in which he gained a national and international reputation.

Professor Wolf's awards and honors include: the Talbert Abrams Research Award from the American Society of Photogrammetry, the Earle J. Fennel Award from the American Congress on Surveying and Mapping, a Surveying and Mapping Award from the American Society of Civil Engineers, and numerous research fellowships and citations.



*“Paul taught me how to teach. His organization was unmatched — board presentations in spectacular color; writing and notes articulate and complete, homework focused — and, as a result, we understood what was taught and we retained it. He is a dedicated, outstanding technical author in surveying and photogrammetry. Wisconsin graduates became known as the best trained anywhere.”*

—Terrence J. Keating, PhD, PE, RLS  
President, Lucerne International  
Bangor, ME

## Helping students see with more clarity

The best teachers have something in common: a willingness to teach students important and lasting lessons through collaboration and practical experience in the field, all of which came together at the summer surveying and hydrographic mapping camps in northern Wisconsin.



Paul Wolf, far left, at the 1960 Summer Surveying Camp.

The surveying camp, held near Taylor Lake in the Chequamegon National Forest, was a beautiful setting conducive to study and learning. Students worked together with instructors on highway surveying, subdivision layouts and development of topographic maps.

Students attending the hydrographic mapping camps focused on mapping various lakes during the first week of the summer session. The groups usually stayed in private cabins or resorts. “We were almost always allowed to stay for free because people were anxious to support our students and to

receive our maps,” recalls Professor Wolf. “Many lakes were mapped,” he says, “and our maps have been published and widely distributed for use, primarily by fishing and boating enthusiasts.”

Before ending in 1972, these surveying and hydrographic camps gave civil and environmental engineering students hands-on experiences outside the classroom.

“Paul was a chalk-and-black-board kind of guy. He had a skillful way of producing material on the board from which you could get really great notes. He could draw the most perfect circles for illustrating astronomic problems on the blackboard. And, he was a pretty good spoons player in the jug band at summer camp.”

—Steven D. Johnson  
Associate Professor  
of Civil Engineering  
Coordinator of Land  
Surveying Engineering Program  
Purdue University

## Extra measures of excellence

The UW-Madison College of Engineering seeks to support the Paul R. Wolf Professorship with an endowment of \$1 million. Annual amounts will be distributed within the civil and environmental engineering department, while the fund principal will remain to provide support in perpetuity. Endowments such as this provide an extra measure of excellence in the college and serve as an enduring example for the college’s alumni and friends.

## How you can help

**T**he Paul R. Wolf Professorship is funded by the Wolf Professorship Fund at the University of Wisconsin Foundation. Colleagues, former students, corporations and foundations have joined to honor one of the world's most respected leaders in surveying, mapping and photogrammetry.

Please join us in this tribute to Professor Wolf. A pledge card and return envelope are enclosed for your convenience.

Gifts to the Wolf Professorship may be made in cash, appreciated securities and personal or real property. Pledges may be made over a period of years. Gifts to the UW Foundation may qualify for a charitable tax deduction.

For more information please contact:

Debra Holt, Director of Development  
University of Wisconsin Foundation  
1848 University Avenue  
Madison, WI 53705  
(608) 263-0779  
deb.holt@uwfoundation.wisc.edu

For more information about other civil and environmental engineering initiatives such as professorships, graduate fellowships, undergraduate scholarships, industry lecturers, laboratory modernization and other industry reinvestment opportunities, please contact:

Jeffrey S. Russell, PhD, PE  
Professor and Chair, CEE Development Committee  
2304 Engineering Hall  
1415 Engineering Drive  
Madison, WI 53706  
(608) 262-7244  
russell@engr.wisc.edu

In addition to a gift by check, we invite you to consider the following gift options:

- **A gift of stock**

You may wish to take advantage of the many tax incentives associated with a gift of securities or appreciated property.

- **Wills and bequests**

A charitable bequest can often reduce estate taxes, enabling you to make a gift to the Wolf Professorship Fund that might not otherwise be possible during your lifetime.

- **Deferred gifts**

Many gift options, such as charitable remainder trusts and charitable annuity trusts, are available through which you can support the Wolf Professorship Fund, while also providing a lifetime income.



*“All members of society bear responsibility for educating our young people, not just professors and teachers. All members of society benefit from well-educated students to replenish our ranks in all professions, and engineering is certainly no exception. Alumni guidance, in particular, can be invaluable in many areas, such as in assisting faculty in developing and modernizing programs, and in plotting new directions.”*

—Paul R. Wolf  
Professor Emeritus  
University of Wisconsin-Madison



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