

The Western Scholar is published semiannually for members of the public interested in Western Kentucky University scholarship and research.

Produced by the Office of Graduate Studies and Research, the Office of Sponsored Programs, University Libraries, and the Office of University Relations.

Western Kentucky University,
1906 College Heights Blvd.,
Bowling Green, KY 42101-1026

CO-EDITORS

Dr. Gay Helen Perkins
University Libraries
<gay.perkins@wku.edu>

Dr. Phillip E. Myers
Office of Sponsored Programs
<phillip.myers@wku.edu>

ASSISTANT EDITOR

Ms. Pamela Napier
Office of Sponsored Programs
<pamela.napier@wku.edu>

**FACULTY SCHOLARSHIP
COUNCIL MEMBERS**

Dr. Elmer Gray, Co-Chair
Dean of Graduate Studies
and Research
Dr. Phillip E. Myers, Co-Chair
Dr. Johnny Chan
Dr. Lloyd Davies
Dr. Marilyn Gardner
Dr. Brian Goff
Dr. George Kontos
Dr. Elizabeth Lemerise
Mr. Greg Mills
Dr. Mostafa Mostafa
Dr. George Musambira
Dr. Gay Helen Perkins
Dr. Raymond Poff
Dr. Vicki Stayton

CONTRIBUTING EDITOR

Mr. Bob Skipper

ART DIRECTOR

Mr. Tom Meacham

CONTRIBUTING WRITERS

Ms. Joy Baum
Ms. Carol Cummings
Mr. Tommy Newton
Ms. Kimberly Parsley
Mr. Scott Sisco
Mr. Bob Skipper

CONTRIBUTING PHOTOGRAPHERS

Mrs. LaDonna Harmon
Mrs. Sheryl Hagan-Booth

CONTRIBUTING DESIGNERS

Mr. Marcus Dukes,
Senior Designer
Mr. C. Scott French,
Graphic Designer
Mr. Ben Davis
Mr. Jason Driver



Printing paid for from state funds, KRS 57.375



The Western SCHOLAR

THE SPIRIT OF SCHOLARSHIP AND RESEARCH AT WESTERN KENTUCKY UNIVERSITY

2 The Secrets of Butterfly Wings
by Tommy Newton

Jeffrey Marcus is using his study of butterflies to assist cancer researchers.



7 An Expert on Russia
by Carol Cummings

A chance trip to the Soviet Union led to a career as an expert on Russia for Hugh Phillips.

10 An Underground Experience
by Tommy Newton

Chris Groves, an international cave explorer is still waiting for a once-in-a-lifetime experience.



14 Word and Image: Studying Ancient Illuminated Manuscripts
by Heather Pulliam as told to Scott Sisco

Heather Pulliam turns an interest in illuminated manuscripts into a book on the Book of Kells.

19 A Wireless War on Terrorism
by Bob Skipper

Phil Womble, director of the Applied Physics Institute, is using wireless and Internet infrastructure to develop a new generation of homeland security devices.



22 A Continental Philosopher
by Kimberly Parsley

Michael Seidler joins European editors in researching Pufendorf's collected works.

25 Making Pollution Detection More Environmentally Friendly
by Scott Sisco

Eric Conte is searching for ways to make pollution monitoring more environmentally friendly.



28 The Hidden Population
by Joy Baum

Tom Nicholson is researching adult users of illicit drugs who don't end up in jail or rehabilitation.

30 Research Briefs

Conserving the Green River, Set Your Goals High, Preparing Child Educators, Studying Capitol Hill

About the Cover

The cecropia moth (*Hyalophro cecropia*) is the largest moth native to the eastern United States. Photograph by Jeffrey Marcus.