R. L. Motard Is Named Head of Chemical Engr.

Rodolphe L. Motard, an internationally known leader in the application of computers to chemical process design, has been named chairman of WU's Department of Chemical Engineering and will arrive on campus by July 1, according to John L. Kardos, the department's acting chairman.

Motard received his BSc at Queen's University, Canada, and his MS and DSc at Carnegie-Mellon University, Pittsburgh, all in chemical engineering.

After six years as a research engineer and group leader in process development for Shell Oil Co., Houston, Texas, including part-time instructor in chemical engineering at the University of Houston, Motard joined the university full time in 1957. He is now a professor of chemical engineering.

In the field of computer applications to chemical processes, Motard's research has produced the computer program CHESS (Chemical Engineering Simulation System). CHESS is used worldwide in some 80 institutions for teaching chemical engineering design and is the basis for a major commercial package in process analysis that is marketed internationally. (continued on page 2)

Nemerov's 'Gnomes' Fetch Pulitzer, National Book Award

WU's Department of English is establishing an enviable track record: Two Guggenheims (John Morris and Barbara Nolan), a Fulbright (Richard Ruland) and now what a Damon Runyon-esque character would probably have called the "Daily Double" (Howard Nemerov). Actually, it could more aptly be described as the weekly double—Monday, April 10, the 1978 National Book Award for Poetry and Monday, April 17, the Pulitzer Prize for the same book—Collected Poems.

Over the weekend BP (Before the Pulitzer), but close on the heels of the NBA (National Book Award), Nemerov patiently endured still another interview in his Spartan Duncker Hall digs.

Amidst all the hoopla, Nemerov's new book, Figures of Thought, was all but lost sight of by the triumphs of the CP (Collected Poems).

Everybody seemed terribly excited (everybody, that is, except Nemerov himself). What seemed to astonish him most was not the wonder of winning a pair of prestigious literary plums, but the size of the crowd which crashed the posh Americana Hotel bash after the Carnegie Hall NBC ceremonies. Each event was supposed to have required a rainbow-colored admittance card (Nemerov fished out samples from his pocket)—but apparently, they were never collected.

In response to the interviewer's request, Nemerov hastily scanned a newspaper clipping of his acceptance speech at the Carnegie event, pronounced it accurate, and reflected on the fact that he had been nominated three times previously before copping the NBA prize.

Asked who his favorite poet was, Nemerov promptly replied George Herbert, a 17th-century metaphysical scribe who wrote, among other poems, a jewel of a piece called "The Flower." Nemerov promptly went down the hall to Xerox it for the visitor.

Quite obviously, he was more interested in the late poet Herbert (who died at the untimely age of 40), than in his own success. When pressed, however, he confessed that he regards
Salamanders’ Amorous Activities Are Studied by WU Biologist

It happens every spring. Forsythia blossom. Magnolia trees bloom in lavender and white. Young peoples’ fancies turn to love (although this is also known to happen in winter, fall and summer). And salamanders, with their fancies turned as much to love as they are ever likely to be, come up out of the wooded valleys of Tyson Research Center, head straight for Salamander Pond, bump into Owen Sexton’s wire-mesh fence, run along it and drop into old coffee cans partially buried in the ground.

Tyson Research Center is a 2000 acre former Army storage facility used by Washington University for projects in a variety of fields from art to physics to biology, and Owen Sexton is a Washington University professor of biology.

Salamander Pond has been around for 12 years. For the past five years, Sexton has been using Salamander Pond, which is part of an ecological preserve at Tyson, to study the breeding migration pattern of salamanders and to count their breeding population at the pond.

The salamanders, mostly the Spotted variety, along with a few Tiger salamanders, which are normally not found in wooded areas, head for the pond to breed during the first heavy rain after the spring thaw. This year they migrated to the pond on the night of Monday, March 27.

After the salamanders are trapped in the partially buried coffee cans, Sexton and his graduate assistants take them out, count the males and the females, weigh them and put them in the pond. Between 10 p.m. on the 27th and 3 a.m. on the 28th, they caught 300 salamanders. By the 30th, the females had laid about 50,000 eggs.

Following a courtship ritual in the water, during which the males entice the females to follow them around the pond, the males deposit spermatophores, capsules of spermatozoa, on dead leaves and on bricks that Sexton puts in the pond.

The closely following females pick up the spermatophores, which do not live long in the water, in their cloacal lips. The cloaca is the cavity into which the intestinal, genital and urinary tracts open in such vertebrates as the salamander and in reptiles.

Three days later the eggs are laid on sticks under the water. To keep track of the number of eggs laid, Sexton has poked sticks into the pond’s bottom on which the females can lay their eggs. These sticks fly tiny flags here and there just above the pond’s surface.

Once breeding is over, the salamanders leave the pond little by little, following the same route by which they entered. They are again trapped by the fence and the coffee cans and are counted and weighed. The females are much heavier than the males and, of course, lose more weight during breeding.

Nearly twice as many males as females are among the 1000 salamanders that come to the pond each spring to breed. The young stay in the water from March until August or September when their tadpole-like forms metamorphose into adult salamanders. These amphibious creatures then live on land for up to 25 years, returning to the pond each year to breed.

This research has allowed Sexton and his assistants to determine from which part of the forest the salamanders come and to study the salamander’s breeding behavior. According to Sexton, the ecological preserve areas of the Research Center are essential to this type of research. “It is the only way it can be carried on without interference from a lot of people.”

Next year, along with all the vagaries of spring, the salamanders will be back at Salamander Pond. And the next spring, and the next...

Peter H. Zimmerman

Professor Owen Sexton removes salamanders from coffee cans at Tyson Research Center.

Motard (continued from page 1)

The author of several books and numerous professional articles, Motard has been a consultant to industry, associate director of the Computing Center at the University of Houston, originator and director of the Systems Engineering Interdisciplinary Graduate Program and the Systems Simulation Laboratory at the same university. He is presently national secretary for the CACHE Corp., a not-for-profit association of faculty, dedicated to the promotion of digital computation in chemical engineering.

Rodolphe L. Motard
Students Honor Four WU Faculty

Four faculty members, Ronald Freiwald, associate professor of mathematics, Wayne D. Fields, associate professor of English, Lawrence H. Meyer, associate professor of economics, and Burton M. Wheeler, dean of the College of Arts and Sciences, will be honored by the Council of Students of Arts and Sciences.

The ceremonies will take place on Wed., April 26, at 11 a.m. in Graham Chapel at the regular Assembly Series sponsored by Phi Beta Kappa, Sigma Xi and the Assembly Committee.

The featured speaker will be Paul Berg, professor of biochemistry at Stanford University, who will speak on "Directing and Reconstructing the Molecules of Heredity."

Three of the four faculty, Freiwald, Fields and Meyer, will receive the first Council of Students of Arts and Sciences Annual Teaching Awards. Wheeler, who has resigned and is leaving his post at the end of the semester, will receive special recognition for his dedication and service to the students of Washington University.

Freiwald, Fields and Meyer will be saluted "for excellence of teaching and genuine concern for the welfare of students."

Nemerov

(continued from page 1)

the little poems he starts with as "gnomes—squint and ugly—which sometimes have powerful jaws."

 Asked what he would do with the $1000 accompanying the NBA, Nemerov mused that he would have to see how much was left after taxes. "It will probably be used to help pay for a new transmission for the family Mercedes on its sixth birthday," he said.

"Any other favorite poets?" the interviewer persisted.

"There's always me," he said mischievously. The humor which surfaced here is very much a part of the Nemerov style.

And what is it like to be a poet these days? "One thing it is like is that you cannot make a living writing verses, but you can make a quite good living by talking about writing verses," he observed.

"CHINESE DOMESTIC POLITICS and Foreign Policy" will be the topic of a lecture Thurs., April 20. Allen S. Whiting, professor of political science at the University of Michigan, will deliver the lecture at 3 p.m. in the Brown Hall Lounge.

SIMON SILVER, WU professor of biology and of microbiology and immunology, has been appointed editor-in-chief of the Journal of Bacteriology. Silver has served as an editor of the Journal since 1976, and previously, was a member of its editorial board.

The WU Record is published weekly during the academic year by the Information Office. Editor, Janet Kelley; calendar editor, Charlotte Boman. Address communications to Box 1142.

New Sports Director Appointed

John Schael, associate chairman of the Department of Physical Education and Athletics at the University of Chicago, has been named the new director of sports and recreation at WU. He will assume the post on July 1.

Schael will serve as the first director of WU's new Department of Sports and Recreation, which will combine the Departments of Physical Education and Athletics.

Schael has been associated with the University of Chicago since 1968. In addition to serving as associate chairman, he has also been chairman of the athletic facilities planning committee, director of recreational and athletic facilities and coordinator of the Stagg Scholarship Program.

Prior to working at the University of Chicago, Schael spent two years at Miami University at Oxford, Ohio, from 1966 to 1968. He served as graduate assistant in physical education, freshman wrestling coach and assistant varsity coach.

He obtained a bachelor of science and master of education in physical education at Miami University.

Members of the search committee were Phillip L. Gould, chairman, professor of civil engineering; Martha Storandt, associate professor of psychology; David M. Becker, professor of law; Ronald L. Jackson, assistant dean in the College of Arts and Sciences; Linda G. Stewart, assistant professor of education, and three students, Eric Plutzer, Robert B. Fultz and Elaine M. Gregory.

APPLICATIONS are now being accepted for university teaching and advanced research grants under the Fulbright-Hays Act. The program provides awards for up to one year in most fields of study. Deadlines are June 1 and July 1. For further information, call Ext. 5958.
**Calendar**

*April 21-27*

**FRIDAY, APRIL 21**

**MEDITATION WITH LINUS SCHMIDT**
3 p.m. Brown Lounge.

**MONDAY, APRIL 24**

**TUESDAY, APRIL 25**
4 p.m. Department of Anthropology Seminar, with Eric Wolf, Lehman Col., City U. of New York. Women’s Bldg. Lounge.

**WEDNESDAY, APRIL 26**
11 a.m. Phi Beta Kappa-Sigma Xi Lecture, “Dissecting and Reconstructing the Molecules of Heredity,” Paul Berg, Willson Prof. of Biochemistry, Stanford U., Stanford, Cal. Graham Chapel. (Cosponsored by Assembly Series.)

**FRIDAY, APRIL 21**
7:30 and 9:30 p.m. WU Filmboard Series, “The Wolf,” directed by Prokofiev, with Lisa Schmidt, business manager, Student Life. Women’s Bldg. Lounge.

**FRIDAY, APRIL 21**
8 p.m. Department of English Shakespeare Colloquium, “‘Printers of the Mind’: Was the First Folio Othello? Printed from Corrected Quarto Copy?” Lawrence J. Ross, WU prof. of English. Hurst Lounge, Duncker Hall.

**FRIDAY, APRIL 21**
7:30 and 9:30 p.m. WU Filmboard Series, “Annie Hall,” Admission $1.50. Brown Hall Theatre. (Also Sat., April 22, same times, Brown; and Sun., April 23, 8 p.m. Wohl Center.)

**TUESDAY, APRIL 25**

**TUESDAY, APRIL 25**
12 noon. Tuesday Women’s Film Series, “Women in Prison.” 304 Mallinckrodt. (Also 6:30 p.m., Wohl Formal Lounge.)

**WEDNESDAY, APRIL 26**

**WEDNESDAY, APRIL 26**
7:30 p.m. WU Filmboard Series Double Feature, “Le Magnifique” and “The Return of the Tall Blond Man with One Black Shoe” (9:15 p.m.). Brown Hall Theatre. Admission $1.50 for either or both films. (Also Thurs., April 27, same times, Brown.)

**SATURDAY, APRIL 22**
7:30 p.m. University City Symphony Concert, directed by Orland Johnson. The program will include the premiere of a piece by Kim Portnoy, WU grad. student. Plaza Frontenac. Admission $3; $1.75 for students, WU faculty and staff. Tickets available at Edison Theatre Box Office and at the door.

**SUNDAY, APRIL 23**
7:30 p.m. University City Symphony Concert, directed by William Schatzkamer. The program will include “Peter and the Wolf,” by Prokofiev, narrated by Jack Carney; and the Khachatryan Piano Concerto in D flat major, Stan Ford, soloist. Graham Chapel.

**MONDAY, APRIL 24**
4 p.m. Department of Music Student Recital, with performances by various students. Graham Chapel.

**TUESDAY, APRIL 25**
8 p.m. WU Wind Ensemble Concert, directed by Dan Pregrove, saxophone instructor at UMSL, will be the soloist.

**FRIDAY, APRIL 21**
8 p.m. Department of Music and Mu Phi Epsilon Gaylord Library Benefit Concert, with baritone Derek Pinnock, WU artist-in-residence, and baritone Meikal Melkus, visiting artist-in-residence. U. of Ill., Urbana, performing an all-Bach concert. Graham Chapel. Admission $3; $1.50 for students; $10 friend; $25 patron. Tickets available at Edison Theatre Box Office and at the door.

**FRIDAY, APRIL 21**
8 p.m. Department of Music Faculty Organ Recital, directed by Clyde Ruffin, WU asst. prof. of music, and the WU Madrigals. Princeton Presbyterian Church, Clayton and(setting place), same times, Brown.)

**FRIDAY, APRIL 21**
8 p.m. Department of Music Faculty Organ Recital, directed by Clyde Ruffin, WU asst. prof. of music, and the WU Madrigals. Princeton Presbyterian Church, Clayton and 111. Street, designed by the noted architect, Philip Johnson.

**MONDAY, APRIL 24**