**Announcement—Academic Year 1982-1983**

**NSF Chautauqua Short Courses for College Teachers**

Conducted by
the American Association for the Advancement of Science • the University of Georgia
12 Regional Field Centers • with support from the National Science Foundation

**Schedules at Regional Field Centers**

In 1982-83, several scientific research laboratories and observatories throughout the United States are hosting Chautauqua short courses taught by researchers on their staff. Applications for these courses will be processed by the Regional Field Centers. Also, five courses will be held at professional meetings and four at selected special locales.

### Western Circuit

**OGC** — Oregon Graduate Center for Study and Research, Nicholas J. Eror, Department of Materials Science. 19600 N.W. Walker Road, Beaverton, Oregon 97006. Tel: (503) 645-1121.

2-4 Nov Advances in Coherent Optical Science and Engineering, Brian J. Thompson

10-12 Nov Toxic Substances in the Environment, William Hadley and David Kidd


9-11 Mar Geological and Physical Oceanography and Technology, Victor T. Neal (at the School of Oceanography, Oregon State University, and its Marine Science Center in Newport.)

16-18 Mar Soft Energy Paths: How to Enjoy the Inevitable, Amory and Hunter Lovins

30 Mar-1 Apr Design and Analysis of Passive Solar Energy—Efficient Buildings, George Tongas

7-9 Apr A Laboratory/Lecture Approach to Microcomputer Education, David Larsen and Paul E. Field

**ANA** — Santa Ana College, Carolyn Breeden, 17th at Bristol, Santa Ana, California 92706. Tel: (714) 667-3279.

27-29 Oct Risk—Benefit Analysis, Chris Whipple

3-5 Nov Science, the Media, and the Public, Sharon Dunwoody and Carol L. Rogers

15-17 Nov Ocean Variability and Its Impact on Living Resources, Richard E. Pieper (at the University of Southern California Institute for Marine and Coastal Studies, Catalina Marine Science Center, Catalina Island, California.)

6-8 Dec Plate Tectonics: History Of and Evidence For, Peter J. Wyllie

14-16 Mar The Personalities of 20th Century Physics: Their Interactions & Struggles, Max Dresden

13-15 Apr Calculus for Non—Majors in the Physical Sciences, Robert A. Rosenbaum

**UUT** — University of Utah, E. Allan Davis, Department of Mathematics, Salt Lake City, Utah 84112. Tel: (801) 581-5809.

11-13 Nov Science, Technology, and Arms Control, Lester G. Paldy

24-26 Feb Food, Energy, and Society, David Pimentel

3-5 Mar Genetics and Society: A Dynamic Interaction, Robert F. Murray, Jr.

10-12 Mar Thermodynamics, Art, Poetry, and the Environment, Henry Bent

24-26 Mar Personal Computers and Learning in Science, Stephen Franklin

10-12 Jun Ecology of Terrestrial Microcommunities, Daniel Dindal (at the joint Annual Meeting in 1983 of the AAAS Pacific Division and the AAAS Southwestern and Rocky Mountain Division, Logan, Utah.)

**TXA** — University of Texas at Austin, James P. Barufaldi, Science Education Center, EDB 340, Austin, Texas 78712. Tel: (512) 471-7354.

1-3 Nov Reproductive Biology of the Flowering Plants, B.J.D. Meese

15-17 Nov The Personalities of 20th Century Physics: Their Interactions & Struggles, Max Dresden

3-5 Mar Science, Technology, and Arms Control, Lester G. Paldy

10-12 Mar The Evolution of Life on a Dynamic Earth, James Valentine

16-18 Mar Ecology of Terrestrial Microcommunities, Daniel Dindal (at Little St. Simon’s Island, Georgia, a semi-tropical island near Brunswick, Georgia.)

5-7 Apr Astronomy Bizarre, R. Edward Nather (at the 1983 National Convention of NSTA, Dallas, Texas.)

4-6 May Topics in Current Solar Research, Jack N. Zirker, et al. (at the Sacramento Peak Observatory, Sunspot, New Mexico.)

### Central Circuit

**UAI** — University of Iowa, Robert E. Yager, Science Education Center, 450 Physics Building, Iowa City, Iowa 52240. Tel: (319) 353-492.1.

8-10 Nov The Search for Human Origins, John Cronin and Alan J. Almquist

**22-23 Nov** Historical Foundations of Modern Science, Duane H. D. Roller (at the University of Oklahoma, site of the University’s History of Science Collections.)

21-23 Feb Ecology of Terrestrial Microcommunities, Daniel Dindal

23-25 Mar Combinatorial Problem—Solving in the Mathematical Sciences, Alan Tucker

28-30 Mar Microcomputers as Laboratory Tools, Rex L. Berney

4-6 Apr Calculus for Non—Majors in the Physical Sciences, Robert A. Rosenbaum

25-27 Apr Soft Energy Paths: How to Enjoy the Inevitable, Amory and Hunter Lovins

**PAR** — Parkland College, Delores C. Schoen, Life Science Division, 2400 W. Bradley Avenue, Champaign, Illinois 61820. Tel: (217) 351-2465.

4-6 Nov The Evolution of Life on a Dynamic Earth, James Valentine
3-5 Mar Food, Energy, and Society, David Pimentel
10-12 Mar Toxic Substances in the Environment, William Hadley and David Kidd
17-19 Mar Reproductive Biology of the Flowering Plants, B.J.D. Meecue
24-26 Mar Mechanisms of Drug Action, Philip C. Hoffman
7-9 Apr Population: Demographic Processes and Techniques of Analysis, Leon Bouvier
16-18 May Pulsed NMR Spectroscopy — An Introduction, R. B. Clarkson (at the Laboratory for Molecular Spectroscopy, University of Illinois, Urbana-Champaign.)

DAY — University of Dayton, George K. Miner, Chautauqua Field Center, Department of Physics, Dayton, Ohio 45469. Tel: (513) 229-2327.

*1-2 Nov Personal Computers and Learning in Science, Stephen Franklin
24-25 Feb Personal Computers as Laboratory Tools, Rex L. Berney
10-11 Mar Astronomy Bizarre, R. Edward Nather
22-23 Nov Advances in Coherent Optical Science Engineering, Brian J. Thompson
7-8 Mar Cognition and Teaching, Ruth S. Day
13-15 Apr Science, Technology, and Arms Control, Lester G. Paldy
11-13 May Natural and Artificial Photosynthesis, Joseph J. Katz (at the Argonne National Laboratory, Argonne, Illinois.)

CBC — Christian Brothers College, John Edward Doody, Division of Science and Mathematics, 650 East Parkway South, Memphis, Tennessee 38104. Tel: (901) 276-0100, Ext. 227.

28-30 Oct Cognition and Teaching, Ruth S. Day

4-6 Nov Personal Computers and Learning in Science, Stephen Franklin
11-13 Nov Microcomputer Interfacing for the Undergraduate Laboratory, Albert S. Woodhull
15-17 Nov Combinatorial Problem—Solving in the Mathematical Sciences, Alan Tucker
3-5 Mar The Search for Human Origins, John Cronin and Alan J. Almquist
21-23 Apr Science, Technology, and Arms Control, Lester G. Paldy

Eastern Circuit

UGA — University of Georgia, W. R. Zeitler, Department of Science Education, Athens, Georgia 30602. Tel: (404) 542-1763.

2-4 Mar Immunobiology: Evolutionary, Developmental, and Molecular Perspectives, Richard A. Goldsby (at the University of Puerto Rico, Rio Piedras, for faculty from Puerto Rico and the Virgin Islands.)
2-4 Mar Industrial Organic and Pharmaceutical Chemistry in College Chemistry Teaching, Harold Wittcoff (at the University of Puerto Rico, Rio Piedras, for faculty from Puerto Rico and the Virgin Islands.)
9-11 Mar Plate Tectonics: History Of and Evidence For, Peter J. Wyllie
16-18 Mar Ecology of Terrestrial Microcommunities, Daniel Dindal (at Little St. Simon’s Island, Georgia, a semi-tropical island near Brunswick, Georgia.)

24-26 Mar Science, the Media, and the Public, Sharon Dunwoody and Carol L. Rogers
30 Mar-1 Apr Reproductive Biology of the Flowering Plants, B.J.D. Meecue
20-22 Apr Chemical Communication Among Animals: Biology, Methodology, and Applications, Gerald N. Lanier
27-29 Apr A Laboratory/Lecture Approach to Microcomputer Education, David Larsen and Paul E. Field (at the 60th Annual Meeting of the American Institute of Chemists, Atlantic City, New Jersey)
24-26 May Science and ... : Interdisciplinary Approaches to Teaching Science, Andrew Fraknoi and Alan J. Friedman (at the 1983 Annual Meeting of the AAAS, Detroit, Michigan.)
24-26 May Microcomputers in the Laboratory, Robert Tinker (at the 1983 Annual Meeting of the AAAS, Detroit, Michigan.)

TUCC — Temple University, Leonard Muldawer, Chautauqua Short Course Program, Barton Hall BA-407, Philadelphia, Pennsylvania 19122. Tel: (215) 787-7668. Courses will be conducted at Temple University Center City (TUCC).

10-12 Nov Population: Demographic Processes and Techniques of Analysis, Leon Bouvier
10-12 Nov Energy and Society, George Tsongas
18-20 Nov Science, Technology, and Arms Control, Lester G. Paldy
28 Feb-2 Mar Personal Computers and Learning in Science, Stephen Franklin
30 Mar-1 Apr Mechanisms of Drug Action, Philip C. Hoffman
4-6 Apr Life in the Oceans, Eugenie Clark
14-16 Apr Industrial Organic and Pharmaceutical Chemistry in College Chemistry Teaching, Harold Wittcoff
10-12 May The Radio Universe, Martha P. Haynes (at the National Radio Astronomy Observatory, Green Bank, West Virginia.)


3-5 Nov Cosmology: The Origin, Evolution, and Future of the Universe, David N. Schramm
15-17 Nov Microcomputers in the Laboratory, Robert F. Tinker
17-19 Nov The Search for Human Origins, John Cronin and Alan J. Almquist
12-14 Jan Modern Laser Spectroscopy, Staff of the Regional Laser Center (at the MIT Regional Laser Center.)

6-8 Apr Qualitative Physics, Victor F. Weisskopf

HAM — Hampshire College, Kenneth R. Hoffmann/Jim Matlock, Chautauqua Program/CA, Amherst, Massachusetts 01002. Tel: (413) 549-4600, ext. 561.

6-8 Oct Microcomputer Interfacing for the Undergraduate Laboratory, Albert S. Woodhull
19-21 Oct Immunobiology: Evolutionary, Developmental, and Molecular Perspectives, Richard A. Goldsby
9-11 Mar Cells and Evolution, Lynn Margulis
6-8 Apr Science and ... : Interdisciplinary Approaches to Teaching Science, Andrew G. Fraknoi and Alan J. Friedman

For further information (course descriptions, applications, etc.) please write or call one of the Regional Field Centers. Information is also available from the American Association for the Advancement of Science Office of Science and Technology Education 1776 Massachusetts Avenue, N.W. Washington, D.C. 20036 (202) 467-4465

*Two-session format.
TIAA announces

MOD ONE...

a brand new concept in personal life insurance protection for families in the academic community that
- cuts first-year premiums up to 50%
- gives discounts of 33⅓% to 40% on large policies

Is digging up that first premium stopping you from providing all the financial protection your family deserves? Then here's really good news. With the introduction of MOD ONE* October 1, 1982, Teachers Insurance has cut up to 50% from initial premiums on term policies of $100,000 to $249,000. And we've trimmed off even more for policies of $250,000 and above. This means you now need only about half as much premium money "up front" to start a large new TIAA policy. Putting it another way, for roughly the same outlay as before you can now begin a new policy that provides twice as much immediate protection for your family!

Here's what men and women aged 35, for example, now pay for 5-Year Renewable Term policies of different amounts:

<table>
<thead>
<tr>
<th>Policy Amount</th>
<th>$50,000</th>
<th>$100,000</th>
<th>$150,000</th>
<th>$200,000</th>
<th>$250,000</th>
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<tbody>
<tr>
<td><strong>Issued to</strong></td>
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<td></td>
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<tr>
<td><strong>men aged 35</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>First-year premium</td>
<td>$126.75</td>
<td>$169.00</td>
<td>$253.50</td>
<td>$338.00</td>
<td>$380.25</td>
</tr>
<tr>
<td>Premium per $1,000</td>
<td>$2.53</td>
<td>$1.69</td>
<td>$1.69</td>
<td>$1.69</td>
<td>$1.52</td>
</tr>
<tr>
<td><strong>Issued to</strong></td>
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<tr>
<td><strong>women aged 35</strong></td>
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</tr>
<tr>
<td>First-year premium</td>
<td>$110.25</td>
<td>$147.00</td>
<td>$220.50</td>
<td>$294.00</td>
<td>$330.75</td>
</tr>
<tr>
<td>Premium per $1,000</td>
<td>$2.20</td>
<td>$1.47</td>
<td>$1.47</td>
<td>$1.47</td>
<td>$1.32</td>
</tr>
</tbody>
</table>

As you can see, premium rates for policies of $100,000 to $249,000 are ½ less than those for smaller policies, and for policies of $250,000 or more, they're 40% less. Substantially lower first-year premiums for all ages and big discounts for larger policies encourage everyone to consider the higher levels of family protection they may have felt they just couldn't afford until now.

Premiums for MOD ONE policies increase beginning with the second year, but generous dividends, credited concurrently, will automatically reduce those premiums. Under the present dividend scale, expected payments for the second and subsequent years of the 5-year policy period in the examples above will be identical to the premium for the first year shown. While dividends cannot be guaranteed for the future, of course, TIAA has paid dividends on life insurance each year since 1918.

To receive personal illustrations of new MOD ONE policies, mail the coupon; or phone the TIAA Life Insurance Advisory Center Toll Free at 800-223-1200 (in New York, call collect 212-492-9000). No one will call on you as a result of your inquiry.

Eligibility to apply for TIAA life insurance is extended to employees of colleges, universities, private schools, and certain other nonprofit educational and research institutions. The employee's spouse is also eligible provided more than half of their combined earned income is from a qualifying institution.

Note to present TIAA policy owners: MOD ONE premium rates apply only to policies issued on or after October 1, 1982, but cash dividends payable in accordance with the 1982 scale will continue to provide equitable treatment for policies issued prior to that date.

Life Insurance Advisory Center
Teachers Insurance and Annuity Association
730 Third Avenue, New York, NY 10017

Please mail me the facts about new TIAA MOD ONE life insurance policies with personal illustrations of low-cost term policies for my age.

Name
Title/Position
Home Address
City State Zip
Nonprofit educational or scientific employer (college, university, private school, etc.)
If your spouse is also eligible according to the rules at left, please fill in:
Spouse's name
Birthdate

*Modified first-year premium.
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