

### Chemical Sciences Graduate School Finder, 1995-1996

Graduate School... where to go, what to study, how much does it cost? If these are the questions you're asking the *Chemical Sciences Graduate School Finder* is the book for you. This concise and easy-to-use guide provides undergraduate chemistry students with the information necessary for selecting a graduate program to suit their needs and goals.

Includes listings from more than 225 major educational institutions in the United States and Canada offering courses leading to a Master's or Ph.D. degree in chemistry and all allied fields. Provides information on the size and make-up of student population, admission and degree requirements, costs and financial aid, faculty members and their research specialties, and the institutions' research facilities and equipment.

Also included is a section on how to apply to graduate school, a checklist of things to do, and perforated pages with preprinted postcards for requesting materials from graduate schools.

#### **Contents**

- How to Use this Guide
- Planning for Graduate Work in Chemistry
- Alphabetical List of Schools
- Department Listings
- Fields of Study Index
- Geographic Index
- Fields of Study Table

#### ORDER FROM

American Chemical Society, 1155 Sixteenth Street, NW, Washington, DC 20036

Or CALL TOLL FREE 1-800-227-5558 (in Washington, DC 872-4363) and use your credit card!

FAX: 202-872-6067.

ACS Publications Catalog now available on Internet: gopher acsinfo.acs.org or URL http://pubs.acs.org

ACS III PUBLICATIONS

## Biochemistry

Biochemistry (ISSN 0006-2960) is published weekly except for the first week in January by the American Chemical Society at 1155 16th St., N.W., Washington, DC 20036. Second-class postage paid at Washington, DC, and additional mailing offices. POSTMASTER: Send address changes to Biochemistry, Member & Subscriber Services, P.O. Box 3337, Columbus, OH 43210. Canadian GST Reg. No. 127571347. Printed in the USA.

American Chemical Society 1155 16th St., N.W. Washington, DC 20036

(202) 872-4600 TDD (202) 872-8733; FAX (202) 872-4615

#### Member & Subscriber Services

American Chemical Society P.O. Box 3337, Columbus, OH 43210 (614) 447-3776; (800) 333-9511

#### **Journal Publishing Operations**

Society 2540 Olentangy River Road P.O. Box 3330, Columbus, OH 43210 (614) 447-3600, Ext 3171 TELEX 6842086; FAX (614) 447-3745

#### **Publications Division**

Robert H. Marks, Director

Journal Publishing Operations: Charles R. Bertsch, Director

Editorial Office: Mary E. Scanlan, Manager; Kathleen E. Duffy, Journals Editing Manager; Deborah K. Miller, Senior Associate Editor; Daniel R. Kelsey, Associate Editor; Barbara I. Taylor and Beth A. Welch, Assistant Editors; Sean M. Lammers and Ann L. Wandtke, Staff Editors

Advertising Office: Centcom, Ltd., 1599 Post Road East, P.O. Box 231, Westport, CT 06881

© Copyright 1995 American Chemical Society.
Copyright permission: Reprographic copying
beyond that permitted by Section 107 or 108 of the
U.S. Copyright Act is allowed, provided that the
appropriate per-copy fee is paid directly to the
Copyright Clearance Center (CCC), 222 Rosewood
Dr., Danvers, MA 01923, USA. Anyone may
excerpt up to 200 words per article for noncom-
mercial, scholarly purposes with appropriate credit
to the source. Direct other reprint permission
requests to ACS Copyright Office, Publications
Division, 1155 Sixteenth St., N.W., Washington,
DC 20036. For quotes and information on order-
ing bulk reprints, call (202) 872-4539 or write to
Product Services Department at the ACS Washing-
ton address

The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984.

Editorial Information

Instructions to authors and copyright status form a printed in the first issue of each volume. Please conform to these instructions when submitting manuscripts.

Manuscripts for publication should be submitted to the Editor, Gordon G. Hammes, Duke University Medical Center, Box 3673, 081 Yellow Zone, Duke South, Durham, NC 27710. Correspondence regarding accepted papers and proofs should be directed to the Journal Publishing Operations at the address above. Page charges of \$30.00 per page may be paid for papers published in this journal. Payment does not affect acceptance or scheduling of papers.

The American Chemical Society and its Editors assume no responsibility for the statements and opinions advanced by contributors.

Registered names and trademarks, etc., used in this publication, even without specific indication thereof, are not to be considered unprotected by law

A nine character code that is unique to each article is assigned during the editorial production of the manuscript and appears at the end of the published paper. It serves as a link between the documents in the printed product and the electronic products (CJACS Plus Images and journals on CD-Rom) and facilitates retrieval of the document in electronic form

1995 Subscription and Ordering Information

Members may share/donate t'...ir personal subscriptions with/to libraries and the like but only after 5 years from publication.

New and renewal subscriptions should be sent with payment to American Chemical Society, Department L-0011, Columbus, OH 43268-0011, Microforms and Back Issue orders should be

sent to Microforms & Back Issues Office at the ACS Washington address.

	U.S.	Canada, Mexico	Europe*	All Other Countries*
Printed				
Members-1 yr	\$ 115	\$ 224	\$ 384	\$ 468
Nonmembers	\$1517	\$1626	\$1786	\$1870
Microfiche				
Members-1 yr	\$ 115	\$ 115	\$ 163	\$ 163
Nonmembers	\$1517	\$1517	\$1565	\$1565
Supporting	\$ 50	\$ 80	\$ 80	\$ 80
information on	microfi	che		
* Air service inclu-	ded.			

Nonmember subscribers in Japan must enter subscription orders with Maruzen Company Ltd.. 3-10 Nihonbashi 2-chome, Chuo-ku, Tokyo 103, Japan. Tel: (03) 272-7211.

Claims for missing numbers will not be allowed if loss was due to failure of notice of change of address to be received in the time specified; if claim is dated (a) North America, more than 90 days beyond issue date; (b) all other foreign, more than 180 days beyond issue date. Claims are handled by Member & Subscriber Services.

Supporting Information is noted in the table of contents with a "box". It is available as photocopy (\$12.00 for up to 3 pages and \$1.50 per page for additional pages, plus \$2.00 for foreign postage) or as  $24 \times$  microfiche (\$12.00, plus \$1.00 for foreign postage). Canadian residents should add 7% GST See Supporting Information notice at the end of journal article for number of pages. Orders must give complete title of article, names of authors, journal, issue date, and page numbers. Prepayment required and prices are subject to change. In 1995, electronic Supporting Information is available to current journal subscribers via the Internet using either gopher or World Wide Web protocols. Most often, the material is available as PDF files, which may be viewed using Adobe's Acrobat Reader, a program which is freely available on the Internet. However, some articles may include computer programs, PostScript files, word processing files, experimental data in a standard format (e.g., crystallographic parameters in CIF format), etc. In order to download the Supporting Information, users will need to enter their journal subscriber number, which can be found on the mailing label. Detailed instructions for using this service can be found on the Internet. With gopher, connect to pubs.acs.org, go to the "ACS Publications" selection, then to the "Supporting Information" selection. Read the README file in this directory for detailed instructions. When using a WWW client (e.g., Mosaic, Netscape), connect to the URL "http://pubs.acs.org/", select the "Supporting Info. for Journals" link. For further information on electronic access, send electronic mail to gopher@acsinfo.acs.org or phone (202) 872-4434. or information on microforms, contact Microforms & Back Issues at the ACS Washington address or phone (202) 872-4554. Supporting Information except structure factors also appears in the microfiche edition.

Cover based on the structure of myosin subfragment-1, courtesy of A. Steinberg and I. Rayment.

# Biochemistry

EDITOR: GORDON G. HAMMES

Duke University Medical Center, Box 3673, 081 Yellow Zone, Duke South, Durham, North Carolina 27710 [Phone (919) 681-3250; FAX (919) 681-8344 or (800) 334-0892]

#### ASSOCIATE EDITORS:

Mary D. Barkley, Louisiana State University Marc G. Caron, Duke University Medical Center Earl W. Davie, University of Washington Perry A. Frey, University of Wisconsin

Arno L. Greenleaf, Duke University Medical Center

William W. Parson, University of Washington James F. Riordan, Harvard Medical School Joseph J. Villafranca, Bristol-Myers Squibb Leslie Wilson, University of California, Santa Barbara

#### EDITORIAL ADVISORY BOARD

ROBERT H. ABELES Brandeis University DAVID S. AULD

Harvard Medical School

JOSEPH AVRUCH

Massachusetts General Hospital

GERALD T. BABCOCK Michigan State University BARBARA A. BAIRD Cornell University ROBERT L. BALDWIN

Stanford University ROBERT M. BELL

Duke University Medical Center

STEPHEN J. BENKOVIC

The Pennsylvania State University

E. MORTON BRADBURY

University of California, Davis

MICHAEL J. CHAMBERLIN

University of California, Berkeley

JOSEPH E. COLEMAN Yale University MINOR J. COON

The University of Michigan

DAVID R. DAVIES

National Institutes of Health

WILLIAM F. DEGRADO

Du Pont Merck Pharmaceutical Company

JACK E. DIXON

The University of Michigan Russell F. Doolittle

University of California, San Diego

RAYMOND A. DWEK University of Oxford MAURICE R. EFTINK University of Mississippi

Juli Feigon

University of California, Los Angeles

ALAN R. FERSHT

Cambridge University Chemical Laboratory

IRWIN FRIDOVICH

Duke University Medical Center

ERROL C. FRIEDBERG

University of Texas Southwestern

Medical Center CARL FRIEDEN

Washington University School of Medicine

MARTIN GELLERT

National Institutes of Health

LILA M. GIERASCH

University of Massachusetts

IRVING H. GOLDBERG Harvard Medical School

JACK GORSKI

University of Wisconsin-Madison

Angela M. Gronenborn National Institutes of Health

HEIDI E. HAMM University of Illinois ROBERT HASELKORN University of Chicago CLAUDE HÉLÈNE

Museum National d'Histoire Naturelle,

Paris

JOHN W. B. HERSHEY

University of California, Davis

GEORGE P. HESS Cornell University STEFAN HIGHSMITH University of the Pacific

PETER C. HINKLE
Cornell University
DICK HOEKSTRA
University of Grani

University of Groningen

BARRY HONIG Columbia University

TONY E. HUGLI Scripps Clinic & Research Foundation

LINDA JEN-JACOBSEN University of Pittsburgh ROBERT L. JERNIGAN National Institutes of Health

HANS JÖRNVALL Karolinska Institutet NEVILLE R. KALLENBACH New York University CLAUDE B. KLFE

National Institutes of Health

JUDITH P. KLINMAN

University of California, Berkeley

ROBERT J. LEFKOWITZ

Duke University Medical Center

TOMAS LINDAHL

ICRF Clare Hall Laboratories

PHILIP W. MAJERUS

Washington University School of Medicine

ROWENA G. MATTHEWS The University of Michigan THOMAS J. McIntosh

Duke University Medical Center

CHRISTOPHER MILLER Brandeis University PAUL L. MODRICH

Duke University Medical Center

LUCIANO MUELLER
Bristol-Myers Squibb
GARY L. NELSESTUEN
University of Minnesota
BERT W. O'MALLEY
Baylor College of Medicine

ARTHUR PARDI

University of Colorado, Boulder

IVAN RAYMENT

University of Wisconsin M. Thomas Record, Jr. University of Wisconsin

GARY RUDNICK

Yale University School of Medicine

DAVID W. RUSSELL

University of Texas Southwestern

Medical Center
J. EVAN SADLER

Washington University School of Medicine

HAROLD A. SCHERAGA Cornell University PAUL R. SCHIMMEL

Massachusetts Institute of Technology

JOACHIM SEELIG University of Basel G. GRAHAM SHIPLEY

Boston University School of Medicine

ANTERO G. SO University of Miami LINDA L. SPREMULLI

University of North Carolina, Chapel Hill

JOANNE STUBBE

Massachusetts Institute of Technology

IGNACIO TINOCO, JR.

University of California, Berkeley

OLKE C. UHLENBECK

University of Colorado, Boulder

BERT L. VALLEE
Harvard Medical School
JANE M. VANDERKOOI
University of Pennsylvania

TERESA S.-F. WANG Stanford University PETER E. WRIGHT

Scripps Clinic & Research Foundation

CHENG-WEN WU Academia Sinica