Completely revised each year for accuracy and reliability

# Eterson's Annual Guides to Graduate Study 1981

Graduate Programs in Engineering and Applied Sciences

Covers 36 fields of graduate and professional degree study at accredited institutions in the United States and Canada

- Profiles of degree-granting units show degrees offered, number of applicants and popenings, costs, aid, requirements, and whom to contact
- Two-page department and program/ descriptions written by chairmen provide details on academic work, research facilities, crowers by and community life, and individual the life members' current research
- Department announcements highlight new or unusual programs, research grants, special facilities
- Directory of Universities and Fields shows at a glance where the programs covered in this volume are offered

# Peterson's Annual Guides to Graduate Study

# 1981 edition

# Book 5 Engineering and Applied Sciences

Series Editor: Karen C. Hegener

Book Editor: Margaret G. Butt

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# Acknowledgment

Once again as we bring another edition to a close, our thanks go out to the many thousands of educators who are farsighted enough to provide detailed information to help students make informed, rational choices about the next step of their education. By filling out the extensive surveys that generate the hundreds of Directories throughout the Guides, and by writing the detailed full-page descriptions, educators and administrators across the country have helped us create the Fifteenth Edition of the reference series that is as innovative today as it was when we created it in 1965.

Here at Peterson's, virtually every one of our many staff members has, at some point during the year, been involved in an activity that furthers the production of the Guides. Publication of these huge volumes is a multifaceted undertaking, necessitating the diverse talents of survey designers, manuscript editors, computer programmers, researchers, data editors, keypunchers, proofreaders, typesetters, book designers, and many others with special abilities. Without an amazing spirit of dedication and concern on the part of every staff member, we would not be able to publish such complex books on time each

We would particularly like to mention certain people whose entire effort is devoted to the excellence of our Guides: Managing Editor Sandra Grundfest and Production Vice President Diane Milligan ensured between them that the books were ready to roll off the presses on the appointed day; Copy Chief Charles Granade, who maintains our high standards of editorial and linguistic precision; book editors Margaret Butt, Joan Hunter, Barbara

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We would also like to thank the group who ultimately counts the most—our readers. Their enthusiastic use of our books and substantive suggestions make the hard work worthwhile. Knowing that so very many people will be helped by our Guides enables us to publish the Fifteenth Edition with pride.

Karen C. Hegener Editor in Chief September 1, 1980 Princeton, New Jersey

# How to Use the Annual Guides to Graduate Study

# WHAT ARE THE GRADUATE GUIDES?

Peterson's Annual Guides to Graduate Study are a comprehensive reference series of five books designed to provide answers to the fundamental questions that prospective graduate students and graduate advisers have about college and university program offerings. With the scope of graduate programs offered in the United States and Canada so great and in such continual flux, today's students need an accurate, annually updated source from which they can gain a broad overview of information in order to narrow their choices of programs and institutions and to make intelligent decisions. The Annual Guides to Graduate Study provide the necessary information in various formats.

# SCOPE OF THE GUIDES

Together, the five Graduate Guides cover 216 academic fields. Book 1 is an overview of the structure and programs at all accredited institutions offering graduate work. Books 2 through 5 are each devoted to a major discipline—humanities and social sciences; biological, agricultural, and health sciences; physical sciences; and engineering and applied sciences. Within these broad areas, the books are divided into academic sections and further subdivided into program-level directories.

Each year the academic fields included in the Guides are reviewed, and trends in higher education are carefully studied. As the emphasis of programs changes or new programs are developed, particularly in the many new interdisciplinary fields, the academic sections of the Guides are changed or rearranged. The Annual Guides to Graduate Study thus reflect an accurate, current profile of graduate education. The Guides let the reader know of every graduate program offered in each academic area through two-page descriptions, announcements, and/or directory entries.

The Guides' editorial staff recognizes that the actual names of programs differ greatly from one institution to another. In order that students and researchers can survey a field fully—regardless of varying administrative unit names—all programs that award degrees in a given academic area are grouped together in separate sections by category.

# **HOW TO FIND INFORMATION**

The Annual Guides present information in a variety of ways, enabling the reader either to use the volumes in the series for comprehensive data collection and cross-reference or to locate information pertinent to a particular academic area in a single volume. There are seven complementary ways to find information in the Guides, as follows.

# **Profiles of Institutions Offering Graduate Work**

The institutional profiles section that appears in Book 1 presents an overview of colleges and universities in the United States, Canada, and the American Territories that offer graduate work, and it provides both a basic reference source and a foundation for the other volumes in the Graduate Guides series. Most profiles include information in three categories. The first supplies data for the institution-enrollment, graduate tuition, financial aid, and graduate housing. The second supplies the names of outstanding university research facilities, affiliations, and projects and information about special degree programs, including unusual fields, planned and suspended programs, and joint-degree programs. The third gives individual summaries of every graduate unit within the institution. For each unit, readers are given information on applying, enrollment, faculty, degrees offered, and evening programs, plus the name of the unit head. The amount of information included in each profile varies, depending upon the individual institution's response to our Annual Survey.

### **Directory of Graduate Program Distribution**

This directory, which appears in Book 1, presents 216 selected graduate fields and all of the institutions offering graduate work in each field. Degree levels offered are shown if the institution supplied the information in response to our Annual Survey. The degree levels used are: *M* for master's, *D* for doctorate, *P* for first professional, and *O* for "other." (The most common first professional degrees are J.D., M.D., D.D.S. [or D.M.D.], D.V.M., Pharm.D., O.D., D.O., and M.Div. "Other" degrees include certificates [such as C.A.S. or C.A.G.S.], specialist's degrees [the most common being Ed.S.], and various miscellaneous degrees [such as P.D. or Eng.].) The directory enables readers who are interested in a particular academic field to identify immediately the institutions offering work in that area.

### **Directory of Institutional Offerings**

This directory, which appears in Book 1, presents the converse of the Directory of Graduate Program Distribution. Institutions are presented together with all the academic areas they offer (of the 216 in Peterson's base list). Degree levels offered are included if the institution supplied the information in response to our Annual Survey.

### Directories of Universities and Selected Fields

In Books 2 through 5, the Directories of Universities and Selected Fields show for each institution which of the academic fields covered in the volume each offers. The degree levels offered in each field are shown if the institution supplied the information in response to our Annual Survey.

# **Academic Area Directories**

In Books 2 through 5, directories for each academic area give the names and addresses of all institutions offering degrees in the field, plus, in most cases, a capsule summary of the program's faculty size, student body, tuition, specific degrees offered, tests required, and professional accreditation. The information comes directly from each institution in response to Peterson's Annual Survey of Graduate Programs. These directories are the best capsule view of academic activity in a given field.

# Announcements

Announcements—fifty-word statements that accompany many directory or profile entries—are submitted by institutions that have information they consider to be of unusual interest to current applicants: new degrees, special grants, expanded research facilities, departmental mergers, or other such important notes. Readers can easily spot the announcements, which are preceded by solid black boxes (

wherever they appear throughout the directories.

# **Two-Page Descriptions**

The two-page descriptions, written by heads of departments or schools, present succinct yet detailed information about current programs. These descriptions are arranged alphabetically by university name in Book 1 and alphabetically within academic area sections in Books 2 through 5. They include information about degree requirements, financial aid, research facilities, the community, student group, current faculty, and ongoing research projects. Each two-page entry was written according to Peterson's format to facilitate reader research.

Thus, the variety of directories in the Annual Guides gives basic facts to the reader, and the announcements and two-page descriptions augment that material. Together they provide the prospective graduate student with the data needed to begin an investigation of graduate programs.

# FOR FURTHER INFORMATION

After consulting the Graduate Guides, prospective students may apply directly to a university as a result of the information given

in a two-page entry or an announcement; or, in the absence of these, they can write for further details about programs listed in a directory, using the addresses given there.

For additional graduate school information of a general nature, readers may review the list of publications in the Additional Reference Sources listing in this book or write to the professional associations whose names and addresses are included there.

For complete financial aid information, a college or university graduate financial aid officer is usually the best source of figures and application procedures, although department faculty members can also provide specific details about fellowships, assistantships, or other forms of aid available through their own programs.

# **DATA COLLECTION**

The information in the profiles and directories is compiled each year from Peterson's Annual Survey of Graduate Programs. The research goal is to cover graduate education, field by field, in the United States, Canada, and the American Territories. The statistics that make up the directories in this edition were collected in the summer and fall of 1980. Every graduate dean was invited to represent his or her campus by completing the 1981 Peterson's Annual Survey. All statistics returned in time for publication have been included in the directories. The twopage descriptions and announcements are current for the 1980-81 academic year.

Although we have tried to verify Survey responses that seemed inappropriate, the following general cautions should be kept in mind when reading directory statistics:

- 1. When tuition is reported as 0, there may very well be other 'fees' required of students.
- 2. Profiles for new programs initiated in 1979 or 1980 will show no enrollment figures between July, 1979, and June, 1980.

3. In certain fields where specialized accreditation is important to a career, it would be best to check whether branch campus programs are accredited by the recognized state or national agency in the field.

# **ACCURACY AND CURRENCY OF THE DATA**

Because the information for each edition of the Guides is resubmitted each year directly by authorized representatives of the colleges and universities themselves, it is the most accurate data available.

The content of every two-page description or announcement is presumed to be correct, as we must assume that there is no better source of facts about a program than its director. Statements that are clearly offered as responsible opinion have been retained by the editors, but we have reserved the right to delete what we have felt to be irrelevant material or questionable self-appraisals. The reader is urged to keep in mind, however, that statements regarding a university's objectives and accomplishments are a reflection of its faculty's beliefs and age not the opinions of the editors.

# **GENERAL NOTE**

Ideally, each directory entry would have a complementary twopage description or announcement, so that, after studying a field of interest in microcosm in the directory, a reader could quickly turn to a fuller description of programs of interest. The absence of a two-page program description or an announcement does not reflect judgment of any sort on the part of Peterson's Guides; rather, the reader is urged to keep in mind that material has been voluntarily submitted, not editorially selected.

# ABBREVIATIONS USED IN THE DIRECTORIES

MMPI

NAAB

NASA NASM

TESTS AND ORGANIZATIONS			
AACSB	American Assembly of Collegiate Schools of Business		
ABET	Accreditation Board for Engineering and Technology (formerly ECPD)		
ACEHSA	Accrediting Commission on Education for Health Services Administration		
ACEJ	American Council on Education for Journalism		
ACPE	American Council on Pharmaceutical Education		
ALA	American Library Association		
APA	American Psychological Association		
ASLA	American Society of Landscape Architects		
ASLHA	American Speech-Language-Hearing Association		
AVMA	American Veterinary Medical Association		
CEPH	Council on Education for Public Health		
CSWE	Council on Social Work Education		
DAT	Dental Admission Test		
ECPD	Engineers' Council for Professional Development (changed to ABET)		
GMAT	Graduate Management Admission Test		
GRE	Graduate Record Examinations		
LSAT	Law School Admission Test		
MAT	Miller Analogies Test		
MCAT	Medical College Admission Test		

Minnesota Multiphasic Personality Inventory

National Architectural Accrediting Board National Association of Schools of Art

National Association of Schools of Music

NCATE	National Council for Accreditation of Teacher Education	
NLN	National League for Nursing	

NTE National Teacher Examinations **PCAT** Pharmacy College Admission Test SAF Society of American Foresters **TOEFL** Test of English as a Foreign Language

# **DEGREES**

The following abbreviations were the most common forms used by respondents in the 1981 Peterson's Survey. Some abbreviations have more than one accepted meaning; conversely, there are an increasing number of alternative abbreviations for the same degree. For example, an M.S.E. can be a Master of Science in Engineering or in Education. Further, a Master of Science in Education might also be an M.S.Ed. or M.S.Educ. Readers should refer to this list for an explanation of degrees listed in the directories.

Adv.M.	Advanced Master		
A.M.	Master of Arts		
A.M.Ed.	Advanced Master of Education		
A.Mus.D.	Doctor of Musical Arts		
Arts D.	Doctor of Arts		
C.A.E.S.	Certificate of Advanced Educational Specialization		
C.A.G.S.	Certificate of Advanced Graduate Studies		
C.A.P.S.	Certificate of Advanced Professional Studies		
C.A.S.	Certificate of Advanced Studies		
D.A.	Doctor of Arts		
D.Arch.	Doctor of Architecture		

# Abbreviations Used in the Directories

D.A.S.	Diploma of Advanced Studies	M. Ag.	Master of Agriculture
D.B.A.	Doctor of Business Administration	M. Ag. Ext.	Master of Agriculture Extension
D.C.L.	Doctor of Civil Law	M.A.H.	Master of Arts in Humanities
D.D.S.	Doctor of Dental Surgery	M.A.I.	Master of Agricultural Industries
D.E.	Doctor of Engineering		Master of Arts in Special Education
D.Ed.	Doctor of Education	M.A.J.	Master of Arts in Journalism
D.E.D.P.	Doctor of Environmental Design and Planning	M.A.J.C.	Master of Arts in Journalism and
D. Eng.	Doctor of Engineering		Communications
D.E.S.	Doctor of Engineering Science	M.A.Lib.St.	Master of Arts in Liberal Studies
D.F.A.	Doctor of Fine Arts	M.A.L.S.	Master of Arts in Library Science
D. Geo. Sc.	Doctor of Geological Science	M.A.M.	Master of Applied Mechanics
D.H.L.	Doctor of Hebrew Literature	M.Ame.	Master of Aménagement (architecture;
D.I.T.	Doctor of Industrial Technology	and the street	French-speaking Canadian schools)
D.J.	Doctor of Jurisprudence	M.A.M.Sc.	Master of Applied Mathematical Science
D. L.S.	Doctor of Library Science	M.A.P.A.	Master of Arts in Public Affairs
D.M.	Doctor of Music	M.A.P.Adm.	Master of Arts in Public Administration
D.M.A.	Doctor of Musical Arts	M.A.P.E.	Master of Arts in Physical Education
D.M.D.	Doctor of Dental Medicine	M.Ap.Stat.	Master of Applied Statistics
D.Med.Sc.	Doctor of Medical Science	M.A.Psych. M.A.P.T.	Master of Arts in Psychology
D.Min.	Doctor of Ministry	DOWNERS OF THE PROPERTY.	Master of Arts in Patients
D.M.Sc.	Doctor of Medical Science	M.A.R. M.Arch.	Master of Arts in Religion  Master of Architecture
D.Mus.	Doctor of Music (usually honorary)	M. Arch. A.S.	Master of Architecture in Advanced Studies
D.Mus. Ed.	Doctor of Music Education	M. Arch. E.	Master of Architectural Engineering
D.N.S.	Doctor of Nursing Science		D. Master of Architecture in Urban Design
D.O.	Doctor of Osteopathy	M.A.R.Ed.	Master of Arts in Religious Education
D.P.A.	Doctor of Public Administration	M.Ar.H.	Master of Architectural History
D.P.E.	Doctor of Physical Education	M.A.R.S.	Master of Arts in Religious Studies
D.P.S.	Doctor of Professional Studies	M.A.S.	Master of Administrative Science
D.Psy.	Doctor of Psychology	M.A.Sc.	Master of Applied Science
Dr.P.H.	Doctor of Public Health	M.A.T.	Master of Arts in Teaching
D.Sc.	Doctor of Science (usually honorary)	M.A.Th.	Master of Arts in Theology
D.Sc. in V.M.		M.A.T.S.	Master of Arts in Theological Studies
D.S.N.	Doctor of Science in Nursing Doctor of Social Work	M. Aud.	Master of Audiology
D.S.W. D.V.M.	Doctor of Veterinary Medicine	M.A.U.S.	Master of Arts in Urban Studies
D. V.N.	Diploma in Veterinary Preventive Medicine	M.A.V.Ed.	Master of Administration in Vocational
Ed.D.	Doctor of Education		Education
Ed.M.	Master of Education	M.B.A.	Master of Business Administration
Ed.S.	Education Specialist or Specialist in Education	M.B.E.	Master of Business Education or
Eng.	Engineer		Business Economics
J.C.D.	Doctor of Canon Law (often honorary)	M.B.I.S.	Master of Business Information Systems
J.C.L.	Licentiate in Canon Law	M.B.P.A.	Master of Business in Public Administration
J.D.	Doctor of Jurisprudence	M.B.P.Mgt.	Master of Business in Public Management
J.S.D.	Doctor of the Science of Law	M.B.S.	Master of Behavioral Science Master of Business Education
LL.B.	Bachelor of Laws	M.Bus.Ed. M.C.	Master of Communication
LL.C.M.	Master of Comparative Law		
LL.D.	Doctor of Laws	M.C.A.T. M.C.C.	Master of Creative Arts in Therapy  Master of Clinical Chemistry
LL.M.	Master of Laws	M.C.D.	Master of Communications Disorders
LL.M. in Tax.	Master of Laws in Taxation	M.C.E.	Master of Civil Engineering
M.A.	Master of Arts	M.Ch.E.	Master of Chemical Engineering
M.A.A.	Master of Applied Arts or	M.C.I.S.	Master of Computer and Information Science
	Aeronautics and Astronautics	M.C.J.	Master of Criminal Justice
M.A.Arch.	Master of Arts in Architecture	M.C.L.	Master of Civil Law
M.A.B.S.	Master of Arts in Behavioral Science or	M,Cl.D.	Master of Clinical Dentistry
	Biblical Studies	M.CI.M.	Master of Clinical Microbiology
M.A.C.	Master of Association	M.C.L.Mgt.	Master of Clinical Lab Management
M.Acct.	Master of Accounting	M.C.L.S.	Master of Clinical Laboratory Science
M.A.C.E.	Master of Arts in College Teaching	M.C.L.T.	Master of Clinical Lab Technology
M.A.C.T. M.Adm.	Master of Arts in College Teaching Master of Administration	M.C.M.	Master of Church Music
M.Adm.J.	Master in Administration of Justice	M.C.Mgt.	Master of City Management
M.A.E.	Master of Aerospace Engineering	M.C.Mn.	Master of Christian Ministries
M.A.Ed.	Master of Arts in Education	M. Comp. L.	Master of Comparative Law
M.A.F.I.S.	Master of Accountancy and Financial	M.C.P.	Master of City Planning
	Information Systems	M.C.R.P.	Master of City and Regional Planning

# Abbreviations Used in the Directories

M.C.S.	Master of Computer Science	M.M.E.	Master of Mechanical Engineering
M.C.Sp.	Master of Christian Spirituality	M.M.Ed.	Master of Music Education
M.D.	Doctor of Medicine	M.Mgt.	Master of Management
M. Dent. Sc.	Master of Dental Sciences	M.Mgt.S.	Master of Management Science
M. Des.	Master of Design	M.M.H.	Master of Mental Health
M. Div.	Master of Divinity	M.Min.	Master of Ministry
M.D.S.	Master of Dental Surgery	M. Miss.	Master of Missiology
M.E.	Master of Engineering	M.M.P.	Master of Marine Policy
M.E.A.	Master of Engineering Administration	M.M.S.	Master of Modern Studies
M.Econ.	Master of Economics	M.M.Sc.	Master of Medical Science
M.Ed.	Master of Education	M.M.Th.	Master of Music Therapy
M.E.E.	Master of Electrical Engineering	M.Mus.	Master of Music
M. Eng.	Master of Engineering	M.Mus. Ed.	Master of Music Education
M. Eng. Sc.	Master of Engineering Science	M.N.	Master of Nursing
M.E.P.	Master of Engineering Physics	M.N.S.	Master of Natural Science
M.E.P.D.	Master of Education-Professional Development	M.N.Sc.	Master of Nursing Science
M. E. S.	Master of Environmental Studies	M. Nurs.	Master of Nursing
M.F.	Master of Forestry	M.O.A.	Master of Orthophonie and Audiologie (Canadian, French-speaking)
M.F.A.	Master of Fine Arts	M.O.D.	Master of Organizational Development
M. Fin.	Master of Finance	M.O.E.	Master of Ocean Engineering
M. Fr.	Master of French	M.O.Ed.	Master of Occupational Education
M.F.R.	Master of Forest Resources	M. Ortho.	Master of Orthodontics
M. F. S.	Master of Forensic Science	M.O.T.	Master of Occupational Therapy
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M.I.H.	Master of Industrial Health	M.P.S.	Master of Political Science, Public Service, or
M.I.J.	Master of International Journalism	141.1 . 0.	Pastoral Studies
M.I.L.R.	Master of Industrial and Labor Relations	M.P.S.A.	Master of Public Service Administration
M. I. M.	Master of Industrial Management or	M.P.Sc.	Master of Physical Science
** 1.0	International Management	M.P.Sci.	Master of Policy Sciences
M.I.S.	Master of International Studies	M.P.S./P.H.	Master of Public Service/Public Health
M.I.T. M.J.	Master of Industrial Technology  Master of Journalism	M.Psych.	Master of Psychology
M. L.A.	Master of Landscape Architecture	M.P.T.	Master of Physical Therapy
M. L. Arch.	Master of Landscape Architecture	M.Pub.A.	Master of Public Affairs
M. Lib.	Master of Librarianship	M.Pub.S.	Master of Public Service
M. Lib. A.	Master of Liberal Arts	M.P.V.M.	Master of Preventive Veterinary Medicine
M. L.I.R.	Master of Labor and Industrial Relations	M.R.	Master of Recreation
M. Lit.M.	Master of Liturgical Music	M.R.A.	Master of Resource Administration
M. L. L.	Master of Law Librarianship	M.R.C.	Master of Rehabilitation Counseling
M. L.M.	Master of Library Media	M.R.C.P.	Master of Regional and Community Planning
M. Ln.	Master of Librarianship	M.R.E.	Master of Religious Education
M. L.S.	Master of Library Science or	M.Rec.	Master of Recreation
	Liberal Studies	M. Rel.	Master of Regional Planning
M.M.	Master of Music	M.R.P. M.R.P.A.	Master of Regional Planning Master of Recreation and Park Administration
M.M.A.	Master of Musical Arts	M.R.S.	Master of Religious Studies
M.M.A.E.	Master of Mechanical and Aerospace	M.S.	Master of Science
M.Math.	Engineering Master of Mathematics	M.S.A.	Master of Science in Accounting
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# Abbreviations Used in the Directories

MS.S.A.E. Master of Science in Administration MS.A.E. Master of Science in Administration MS.A.E. Master of Science in Administration MS.A.E. Master of Science in Agriculture MS.A.E. Msater of Science in Business MS.A.E. Msater of Science in Computer and Information MS.C. MS.C.E. Msater of Science in Computer and Information Science MS.C.I. Msater of Science in Computer and Information Ms.C.I. Msater of Science in Dental Hygiene Education Ms.C.I. Msater of Science in Engineering Science Ms.C.I. Msater of Science in Engineering Mineral Ms.C.I. Msater of Science in Information Science Ms.C.I. Msater			M C M:- E	Master of Science in Mining Engineering
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# The Accrediting Process and Agencies

Sc. D.	Doctor of Science (usually honorary)	S. N. Sc.	Specialist in Natural Science
Sc. D. Hyg.	Doctor of Science in Hygiene	Spec.	Specialist's Certificate
Sci.S.	Specialist in Science	Sp. Ed.	Specialist in Education
Sc.M.	Master of Science	S.S.P.A.	Specialist in Speech Pathology and Audiology
S.C.T.	Specialist in College Teaching	S.T.D.	Doctor of Sacred Theology
S.J.D.	Doctor of the Science of Law	S.T.M.	Master of Sacred Theology
S. L. S.	Specialist in Library Science	Th.D.	Doctor of Theology
S.M.	Master of Science	Th.M.	Master of Theology

# The Accrediting Process and Agencies

The following is reprinted, with permission, from Accredited Institutions of Postsecondary Education, published by the American Council on Education. (The 1980-81 edition is available from the ACE.)

Accreditation is a process of recognizing educational institutions in toto and various professional programs they offer in parte for performance, integrity, and quality which entitle them to the confidence of the educational community and the public. In the United States this recognition is extended largely through nongovernmental voluntary institutional or professional associations which have responsibility for establishing criteria, visiting and evaluating institutions at their requests, and approving those institutions and programs which meet their criteria.

In American postsecondary education, accreditation performs a number of important functions, including the encouragement of efforts toward maximum educational effectiveness. The accrediting process requires institutions and programs to examine their own goals, operations, and achievements, followed by the expert criticism and suggestions of a visiting team, and later by the recommendations of the accrediting body. Since the accreditation is reviewed periodically, the institutions and programs are encouraged toward continual self-study and improvement.

Institutional accreditation is granted by the accrediting commissions or associations of schools and colleges which together cover institutions chartered and/or licensed in the United States and its possessions. These commissions or associations accredit total operating units only, not parts of them.

Specialized accreditation of professional schools and programs is granted by a number of national organizations, each representing a professional area such as architecture, law, medicine, or social work. Though each of these organizations has its distinctive definitions of eligibility, criteria for accreditation, and operating procedures, most of them have undertaken accreditation as one means of protecting the public against professional incompetence.

Many of the specialized accrediting bodies require that an institution be accredited *in toto* before its professional programs are eligible for specialized accreditation. Several specialized agencies, however, have accredited professional programs at institutions not otherwise accredited. These generally are free-standing institutions that offer only the one professional discipline or course of study.

While the accrediting procedures of the accrediting bodies differ somewhat in detail to allow for variations, their rules of eligibility, basic policies, and levels of expectation are similar. These similarities are further developed and encouraged through the Council on Postsecondary Accreditation (COPA).

# THE ACCREDITING PROCESS

The Accrediting Process is continuously evolving, having changed significantly from the early days of simple checklists to a

steadily increasing emphasis on measuring the outcomes of educational experiences. It begins with a comprehensive effort to assess the effectiveness of an entire institution or a program in the light of its publicly stated purposes and objectives. This self-study involves a broad cross section of constituencies students, faculty, trustees, administrators, alumni, and sometimes even the local community. The resulting self-study report further serves as introductory and background material to an evaluation team assigned to visit the campus by an accrediting commission. A team usually consists of professional educators, faculty members as well as administrators, certain specialists according to the nature of the institution, and sometimes members of state agencies and others representing specific public interests. The visiting team evaluates the institution's or program's own efforts to assess its strengths and weaknesses, and adds judgments based on expertise and the advantage of an outside perspective.

Once an evaluation team completes its report and the institution or program reviews it for factual accuracy, the report goes to a designated reviewing body along with the original self-study report and any further response the institution makes to the analysis and judgments of the visiting team. The accrediting bodies then consider the evidence and take appropriate action, with adequate provisions for appeal in accordance with due process.

Accrediting bodies reserve the right to review any institution or program at any time for cause, and an institution undergoing substantive change, such as moving from the baccalaureate to the master's degree level, will be reviewed not more than two years after the change becomes effective. Thus, there is a continuing relationship between accredited institutions and programs and the accrediting bodies that hold them accountable to their educational peers, to the constituencies they serve, and to the public interest.

Historically and currently accreditation at the postsecondary level may be said to:

- foster excellence in postsecondary education through the development of criteria and guidelines for assessing educational effectiveness;
- encourage improvement through continuous self-study and planning;
- assure the educational community, the general public, and other agencies or organizations that an institution or program has both clearly defined and appropriate objectives, maintains conditions under which their achievement can reasonably be expected, appears in fact to be accomplishing them substantially, and can be expected to continue to do so;
- provide counsel and assistance to established and developing institutions and programs; and
- endeavor to protect institutions against encroachments which might jeopardize their educational effectiveness or academic freedom.

# **COPA'S ROLE IN ACCREDITATION**

Postsecondary education in the United States derives its strength and excellence from the unique and diverse character of its many

# The Accrediting Process and Agencies

individual institutions. Such qualities are best sustained and extended by the freedom of these institutions to determine their own objectives and to experiment in the ways and means of education within the framework of their respective authority and responsibilities.

Public as well as educational needs must be served simultaneously in determining and fostering standards of quality and integrity in the institutions and such specialized programs as they offer. Accreditation, conducted through nongovernmental institutional and specialized agencies, provides a major means for meeting these needs.

The Council on Postsecondary Accreditation is a nongovernmental organization, supported by accredited institutions of postsecondary education, intended to foster and facilitate the role of these accrediting agencies in promoting and ensuring the quality and diversity of American postsecondary education. The accrediting agencies, while established and supported by their membership, are intended to serve the broader interests of society as well. To achieve these ends, COPA recognizes, coordinates, and periodically reviews the work of its member accrediting agencies, determines the appropriateness of existing or proposed accrediting agencies, determines the appropriateness of existing or proposed accrediting accrediting activities, and performs other related functions.

# ACCREDITING GROUPS RECOGNIZED BY COPA

COPA evaluates the postsecondary educational accrediting activities of institutional and professional associations. Upon determining that those activities meet or exceed its provisions and procedures, COPA publicly recognizes these institutions through a listing, as shown below. The groups that are regional in nature are identified with their geographical areas; all others are national in their activities. The list is current as of August 1, 1980.

# ASSOCIATION OF AMERICAN BIBLE COLLEGES

John Mostert, Executive Director Box 1523 Fayetteville, Arkansas 72701 Tel. (501) 521-8164

# ASSOCIATION OF INDEPENDENT COLLEGES AND SCHOOLS

Robert M. Toren, Executive Secretary Accrediting Commission, AICS 1730 M Street, N.W. Washington, D.C. 20036 Tel. (202) 659-2460

# MIDDLE STATES ASSOCIATION OF COLLEGES AND SCHOOLS

Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania, Puerto Rico, Virgin Islands

Robert Kirkwood, Executive Secretary Commission on Higher Education University City Science Center 3624 Market Place Philadelphia, Pennsylvania 19104 Tel. (215) 662-5600

# NATIONAL ASSOCIATION OF TRADE AND TECHNICAL SCHOOLS

William A. Goddard, Executive Director 2021 K Street, N.W., Room 305 Washington, D.C. 20036 Tel. (202) 296-8892

# NATIONAL HOME STUDY COUNCIL

William A. Fowler, Executive Secretary Accrediting Commission, NHSC 1601 Eighteenth Street, N.W. Washington, D.C. 20009 Tel. (202) 234-5100

NEW ENGLAND ASSOCIATION OF SCHOOLS AND COLLEGES Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont 131 Middlesex Turnpike Burlington, Massachusetts 01803
Tel. (617) 272-6450
William J. MacLeod, Director of Evaluation
Commission on Institutions of Higher Education
Daniel S. Maloney, Director of Evaluation
Commission on Vocational, Technical, Career Institutions

# NORTH CENTRAL ASSOCIATION OF COLLEGES AND SCHOOLS

Arizona, Arkansas, Colorado, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, New Mexico, North Dakota, Ohio, Oklahoma, South Dakota, West Virginia, Wisconsin, Wyoming

Thurston E. Manning, Director
Commission on Institutions of Higher Education
1221 University Avenue
Boulder, Colorado 80302
Tel. (800) 525-0840
and

820 Davis Street Evanston, Illinois 60201 Tel. (800) 323-6528

# NORTHWEST ASSOCIATION OF SCHOOLS AND COLLEGES

Alaska, Idaho, Montana, Nevada, Oregon, Utah, Washington James F. Bemis, Executive Director Commission on Colleges 3700-B University Way, N.E. Seattle, Washington 98105 Tel. (206) 543-0195

# SOUTHERN ASSOCIATION OF COLLEGES AND SCHOOLS

Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South America, South Carolina, Tennessee, Texas, Virginia

795 Peachtree Street, N.E. Atlanta, Georgia 30308 Tel. (404) 897-6100

Gordon W. Sweet, Executive Secretary Commission on Colleges

B. E. Childers, Executive Secretary Commission on Occupational Education Institutions

# WESTERN ASSOCIATION OF SCHOOLS AND COLLEGES

American Samoa, California, Guam, Hawaii, Trust Territory of the Pacific

Kay J. Anderson, Executive Secretary Accrediting Commission for Senior Colleges and Universities c/o Mills College Oakland, California 94613 Tel. (415) 632-5000

Robert E. Swenson, Executive Director Accrediting Commission for Community and Junior Colleges P.O. Box 70 Aptos, California 95003 Tel. (408) 688-7575

ALLIED HEALTH (Through the American Medical Association) COPA recognizes the AMA and its Committee on Allied Health Education and Accreditation (CAHEA) as an umbrella agency for accrediting the programs indicated in collaboration with appropriate health and medical societies, associations, or organizations. All questions concerning accreditation of these programs should be directed to CAHEA at the address given. The programs are Cytotechnologist, Medical Assistant, Medical Record Administrator and Medical Record Technician, Medical Technologist, Nuclear Medicine Technologist, Occupational Therapist, Physical Therapist, Physician's Assistant, Radiation Therapy Technologist and Radiologic Technologist, Respiratory Therapist and Respiratory Therapy Technician, and Specialist in Blood Bank Technology.

Committee on Allied Health Education and

Committee on Allied Health Education and Accreditation of the American Medical Association John E. Beckley, Director Department of Allied Health Evaluation, AMA (Allied Health continued)
535 North Dearborn Street
Chicago, Illinois 60610
Tel. (312) 751-6272

### ARCHITECTURE

First professional programs
National Architectural Accrediting Board
Hugo G. Blasdel, Executive Director
1735 New York Avenue, N.W.
Washington, D.C. 20006
Tel. (202) 833-1180

### ART

Institutions offering professional preparation
National Association of Schools of Art
Roger Gilmore, Director
Samuel Hope, Executive Secretary
Commission on Accreditation and Membership, NASA
11250 Roger Bacon Drive, No. 5
Reston, Virginia 22090
Tel. (703) 437-0700

### BUSINESS

Bachelor's and master's degree programs
American Assembly of Collegiate Schools of Business
William K. Laidlaw Jr., Managing Director
11500 Olive Street Road, Suite 142
St. Louis, Missouri 63141
Tel. (314) 872-8481

### CHEMISTRY

Undergraduate professional programs
American Chemical Society
John H. Howard, Secretary
Committee on Professional Training, ACS
1155 Sixteenth Street, N.W.
Washington, D.C. 20036
Tel. (202) 872-4600

# CHIROPRACTIC EDUCATION

Schools and programs leading to the Doctor of Chiropractic degree

Council on Chiropractic Education Ralph Miller, Executive Secretary 3209 Ingersoll Des Moines, Iowa 50312 Tel. (515) 255-2184

# CLINICAL PASTORAL EDUCATION

Professional training centers
Association for Clinical Pastoral Education, Inc.
Charles L. Hall Jr., Executive Director
Interchurch Center, Suite 450
475 Riverside Drive
New York, New York 10027
Tel. (212) 870-2558

Clinical Pastoral Education is offered and accredited in health care facilities. Many theological seminaries recognize the accreditation of these programs and allow students credit toward theological degrees. A list of these institutions may be obtained from the ACPE headquarters.

# COMMUNITY AND PUBLIC HEALTH

Master's degree programs in community health American Public Health Association Frederick W. Hering, Director Professional Education, APHA 1015 Eighteenth Street, N.W. Washington, D.C. 20036 Tel. (202) 467-5000

(Responsibility for accrediting these programs will be transferred to the Council on Education for Public Health.)

Graduate schools of public and community health
Council on Education for Public Health
Janet A. Strauss, Executive Director
1015 Eighteenth Street, N.W.
Washington, D.C. 20036
Tel. (202) 467-5061

# CONSTRUCTION EDUCATION

Baccalaureate programs
American Council for Construction Education
I. Eugene Thorson, Executive Secretary
1140 N.W. 63, Glenbrook Centre, Suite 511
Oklahoma City, Oklahoma 73116
Tel. (405) 843-5531

# DENTISTRY AND DENTAL AUXILIARY PROGRAMS

Programs leading to D.D.S. or D.M.D. degrees; professional programs in dental assisting, dental hygiene, and dental technology

American Dental Association Thomas J. Ginley, Secretary Commission on Accreditation of Dental and Dental Auxiliary Educational Programs, ADA 211 East Chicago Avenue Chicago, Illinois 60611 Tel. (312) 440-2701

# DIETETICS

Coordinated baccalaureate programs
American Dietetic Association
Gloria Archer, Coordinator
Commission on Evaluation of Dietetic Education
Department of Education, ADA
430 North Michigan Avenue
Chicago, Illinois 60611
Tel. (312) 822-0330

### **ENGINEERING**

Professional engineering programs at the basic (baccalaureate) and advanced (master's) levels; baccalaureate programs in engineering technology; and two-year (associate degree) programs in engineering technology

Accreditation Board for Engineering and Technology (formerly Engineers' Council for Professional Development) David Reyes-Guerra, Executive Director 345 East 47th Street New York, New York 10017 Tel. (212) 644-7685

# FORESTRY

Professional schools Society of American Foresters Larry Neff, Acting Director of Professional Programs, SAF 5400 Grosvenor Lane Washington, D.C. 20014 Tel. (301) 897-8720

# HEALTH SERVICES ADMINISTRATION

Graduate programs
Accrediting Commission on Education for Health
Services Administration
Gary L. Filerman, Executive Secretary
One Dupont Circle, N.W., Suite 420
Washington, D.C. 20036
Tel. (202) 659-4354

# HOME ECONOMICS

Undergraduate programs
American Home Economics Association
Sara A. Bagby, Director
Office of Professional Development, AHEA
2010 Massachusetts Avenue, N.W.
Washington, D.C. 20036
Tel. (202) 862-8300

# INDUSTRIAL TECHNOLOGY

Baccalaureate programs
National Association for Industrial Technology
C. E. Strandberg, Executive Secretary
P.O. Box 627
Charleston, Illinois 61920
Tel. (217) 581-3020

# The Accrediting Process and Agencies

### INTERIOR DESIGN

Interior design programs at the two-year, three-year, baccalaureate, and master's levels
Foundation for Interior Design Education Research Administrator
730 Fifth Avenue

New York, New York 10019 Tel. (212) 586-7266

### **JOURNALISM**

First professional degree program
American Council on Education for Journalism
Baskett Mosse, Executive Secretary
Accrediting Committee, ACEJ
563 Essex Court
Deerfield, Illinois 60015
Tel. (312) 948-5840

# LANDSCAPE ARCHITECTURE

Professional schools

American Society of Landscape Architects Samuel C. Miller, Director Research and Education, ASLA 1750 Old Meadow Road McLean, Virginia 22101 Tel. (703) 893-3140

### LAW

Professional schools

American Bar Association
James P. White, Consultant on Legal Education, ABA
Indianapolis Law School
Indiana University-Purdue University at Indianapolis
735 West New York Street
Indianapolis, Indiana 46202
Tel. (317) 264-8071

Association of American Law Schools Millard H. Ruud, Executive Director, AALS One Dupont Circle, N.W., Suite 370 Washington, D.C. 20036 Tel. (202) 296-8851

# LIBRARIANSHIP

Master's degree programs
American Library Association
Elinor Yungmeyer, Accreditation Officer
Committee on Accreditation, ALA
50 East Huron Street
Chicago, Illinois 60611
Tel. (312) 944-6780

# MEDICAL LABORATORY TECHNOLOGY

Professional programs in the private sector for training medical assistants and medical laboratory technicians
Accrediting Bureau of Medical Laboratory Schools
Hugh A. Woosley, Administrator

Oak Manor Offices 29089 U.S. 20 West Elkhart, Indiana 46514 Tel. (219) 293-0124

# MEDICINE

Programs leading to M.D. degree and programs in the basic medical sciences  $\,$ 

Liaison Committee on Medical Education (in odd-numbered years beginning each July 1, contact) Edward S. Petersen, Director Council on Medical Education, AMA 535 North Dearborn Street Chicago, Illinois 60610 Tel. (312) 751-6000

or

(in even-numbered years beginning each July 1, contact)
J. R. Schofield, Secretary
Association of American Medical Colleges
One Dupont Circle, N.W., Suite 200
Washington, D.C. 20036
Tel. (202) 466-5100

# MUSIC

Baccalaureate and graduate degree programs National Association of Schools of Music Samuel Hope, Executive Director 11250 Roger Bacon Drive, No. 5 Reston, Virginia 22090 Tel. (703) 437-0700

### NURSING

Bachelor's and master's degree programs; technical nurse programs

National League for Nursing 10 Columbus Circle New York, New York 10019 Tel. (212) 582-1022

Margaret E. Walsh, General Director and Secretary Department of Baccalaureate and Higher Degree Programs, NLN

Gerald J. Griffin, Director Department of Associate Degree Programs, NLN

Practical nursing programs only

National Association for Practical Nurse Education and Service Lucille L. Ethridge, Executive Director 122 East 42nd Street New York, New York 10017 Tel. (212) 682-4300

# OPTOMETRY

Professional schools and optometric technician programs
American Optometric Association
Brian Andrew, Executive Secretary
Council on Optometric Education, AOA
7000 Chippewa Street
St. Louis, Missouri 63119
Tel. (314) 832-5770

# OSTEOPATHY

Programs leading to the D.O. degree American Osteopathic Association Douglas Ward, Director Office of Education, AOA 212 East Ohio Street Chicago, Illinois 60611 Tel. (312) 944-2713

# PHARMACY

Programs leading to baccalaureate and Doctor of Pharmacy degrees American Council on Pharmaceutical Education Daniel A. Nona, Executive Director One East Wacker Drive Chicago, Illinois 60602 Tel. (312) 467-6220

# PHYSICAL THERAPY

Professional programs in physical therapy American Physical Therapy Association James Clinkingbeard, Director Department of Educational Affairs, APTA 1156 Fifteenth Street, N.W. Washington, D.C. 20005 Tel. (202) 466-2070

# **PODIATRY**

Professional schools
American Podiatry Association
John L. Bennett, Director
Council on Podiatry Education, APA
20 Chevy Chase Circle, N.W.
Washington, D.C. 20015
Tel. (202) 362-2700

# **PSYCHOLOGY**

Doctoral programs leading to professional practice of psychology American Psychological Association Meredith P. Crawford, Administrative Officer for Accreditation (Psychology continued) 1200 Seventeenth Street, N.W. Washington, D.C. 20036 Tel. (202) 833-7600

REHABILITATION COUNSELING

Master's degree programs

Council on Rehabilitation Education Ivan M. Lappin, Executive Director 3101 S. Dearborn Street, Room 246C Chicago, Illinois 60616

Tel. (312) 791-9.105

Peers, Ltd. (Consultant to CORE) 8 South Michigan Avenue Chicago, Illinois 60603 Tel. (312) 332-7111

SOCIAL WORK

Graduate professional schools and baccalaureate degree programs Council on Social Work Education Alfred Stamm, Director, Division of Education Standards and Accreditation, CSWE 111 Eighth Avenue, Suite 501

New York, New York 10011

Tel. (212) 242-3800

SPEECH PATHOLOGY AND AUDIOLOGY

Master's degree programs

American Speech-Language-Hearing Association Betty Jane Philips, Chairman, Education and Training Board, ASLHA

9030 Old Georgetown Road, N.W. Washington, D.C. 20014 Tel. (202) 530-3400

TEACHER EDUCATION

Bachelor's and higher degree programs National Council for Accreditation of Teacher Education Rolf W. Larson, Director, NCATE 1919 Pennsylvania Avenue, N.W., Suite 202 Washington, D.C. 20006

Tel. (202) 466-7496

THEOLOGY

Graduate professional schools Association of Theological Schools in the United States and Canada Jesse H. Ziegler, Executive Director, AATS

P.O. Box 130

Vandalia, Ohio 45377 Tel. (513) 898-4654

VETERINARY MEDICINE

Schools offering D.V.M. or V.M.D. degree programs American Veterinary Medical Association R. Leland West, Director Scientific Activities, AVMA 930 North Meacham Road Schaumburg, Illinois 60172 Tel. (312) 922-7930

# Additional Reference Sources

# **PUBLICATIONS**

Listed below are books, handbooks, and directories relating to the areas in this volume. Addresses for professional associations can be found in the list of associations. Publication dates are not included because many of these are annual publications or are revised frequently.

American Association of Engineering Societies. Engineering Degrees-Statistics and Trends.

American Ceramic Society, Inc.

Career Opportunities in Ceramic Engineering. Ceramic Engineers—Supply and Demand.

The Many Paths to a Career in Ceramic Engineering.

American Council on Education.

Accredited Institutions of Postsecondary Education.

American Universities and Colleges.

American Institute of Chemical Engineers.

Chemical Engineering Faculties List.

American Institute of Industrial Engineers.

Industrial Engineering: The Humanized Profession.

American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.

Petroleum Engineering Schools.

American Society for Engineering Education.

Annual Directory of Engineering College Research and Graduate Study.

The Road to Graduate School in Engineering. American Society of Agricultural Engineers.

Agricultural Engineers Yearbook. American Society of Mechanical Engineers, Inc.

A Career for the Future.

Creative Profession-You Can Help Create a Better World Through Mechanical Engineering.

Association for Computing Machinery, Inc.

Graduate Assistantship Directory in the Computer Sciences.

Data Processing Management Association.

Your Career in Data Processing.

Institute of Electrical and Electronics Engineers, Inc.

Careers in Electrical/Electronics Engineering. Operations Research Society of America.

Careers in Operations Research.

Educational Programs in Operations Research/Management

Sciences.

Peterson's Guides, Inc.

Annual Guide to Careers and Employment for Engineers, Computer Scientists, and Physical Scientists. Princeton,

New Jersey. Society of Petroleum Engineers of AIME.

Careers in Petroleum Engineering.

Petroleum Engineering Schools.

# **ASSOCIATIONS**

Listed below are recognized professional agencies and associations that can supply additional information about the fields covered in this book.

Accreditation Board for Engineering and Technology, 345 East

47th Street, New York, New York 10017.

Alliance for Engineering in Medicine and Biology, Suite 404, 4405 East-West Highway, Bethesda, Maryland 20014.

American Association for the Advancement of Science, 1515 Massachusetts Avenue, N.W., Washington, D.C. 20005.

American Association of Engineering Societies, 345 East 47th

Street, New York, New York 10017.

American Ceramic Society, Inc., 65 Ceramic Drive, Columbus, Ohio 43214.

American Consulting Engineers Council, Suite 802, 1155 Fifteenth Street, N.W., Washington, D.C. 20005.

American Council on Education, One Dupont Circle, Washington,

American Federation of Information Processing Societies, Inc., 1815 North Lynn Street, Arlington, Virginia 22209.
American Institute of Aeronautics and Astronautics,

Avenue of the Americas, New York, New York 10019.

American Institute of Chemical Engineers, 345 East 47th Street, New York, New York 10017.

American Institute of Industrial Engineers, 25 Technology Park/ Atlanta, Norcross, Georgia 30092.

American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc., 345 East 47th Street, New York, New York

American Institute of Plant Engineers, 3975 Erie Avenue, Cincinnati, Ohio 45208.

American Nuclear Society, Inc., 555 North Kensington Avenue, La Grange Park, Illinois 60525.

American Petroleum Institute, 2101 L Street, N.W., Washington, D.C. 20037.

American Society for Engineering Education, Suite 400, One Dupont Circle, N.W., Washington, D.C. 20036.

American Society for Information Science, 1010 Sixteenth Street, N.W., Washington, D.C. 20036.

American Society for Metals, Career Development Office, Metals Park, Ohio 44073.

American Society for Quality Control, Inc., 161 West Wisconsin

Avenue, Milwaukee, Wisconsin 53203.

American Society of Agricultural Engineers, 2950 Niles Road,

P.O. Box 410, St. Joseph, Michigan 49085. American Society of Civil Engineers, 345 East 47th Street, New York, New York 10017.

American Society of Heating, Refrigeration, and Air-Conditioning Engineers, Inc., 345 East 47th Street, New York, New York 10017.

American Society of Lubrication Engineers, 838 Busse Highway, Park Ridge, Illinois 60068.

American Society of Mechanical Engineers, Inc., 345 East 47th Street, New York, New York 10017.

American Society of Naval Engineers, Inc., Suite 807, 1012 Fourteenth Street, N.W., Washington, D.C. 20005.

American Society of Sanitary Engineering, Box 9712, Bay Village, Ohio 44140.

Association for Computing Machinery, Inc., 1133 Avenue of the Americas, New York, New York 10036.

Association for Systems Management, 24587 Bagley Road, Cleveland, Ohio 44138.

Association for Women in Science, Room 1122, 1346 Connecticut Avenue, N.W., Washington, D.C. 20036

Association of Computer Programmers and Analysts, 294 Main Street, East Greenwich, Rhode Island 02818.

Association of Data Processing Service Organizations, Inc., 1925 North Lynn Street, Arlington, Virginia 22209.

Data Processing Management Association, 505 Busse Highway, Park Ridge, Illinois 60068.

Electronics Industries Association, 2001 Eye Street, N.W., Washington, D.C. 20006.

Engineering Manpower Commission, 345 East 47th Street, New York, New York 10017.

IEEE Computer Society, Box 639, Silver Spring, Maryland 20901

Institute of Electrical and Electronics Engineers, Inc., 345 East 47th Street, New York, New York 10017.

Institute of Transportation Engineers, Inc., Suite 905, 1815 North Fort Myer Drive, Arlington, Virginia 22209.

Marine Technology Society, 1730 M Street, N.W., Washington, D.C. 20036.

Metallurgical Society of AIME, P.O. Box 430, Warrendale, Pennsylvania 15086.

National Association of Power Engineers, Inc., Suite 1914, 176 West Adams Street, Chicago, Illinois 60603.

National Institute of Ceramic Engineers of the American Ceramic Society, 65 Ceramic Drive, Columbus, Ohio 43214.

National Society of Black Engineers, 521 Waldron Street, West Lafayette, Indiana 47906.

Operations Research Society of America, 428 East Preston Street, Baltimore, Maryland 21202.

Scientific Manpower Commission, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036.

Society for the Advancement of Material and Engineering, P.O. Box 613, Azusa, California 91702. Material and Process

Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, Pennsylvania 15096.

Society of Manufacturing Engineers, P.O. Box 930, One SME Drive, Dearborn, Michigan 48128.

Society of Mining Engineers of AIME, Inc., Caller #D, Littleton, Colorado 80123.

Society of Naval Architects and Marine Engineers, Suite 1369,

One World Trade Center, New York, New York 10048. Society of Packaging and Handling Engineers, 11800 Sunrise Valley Drive, Reston, Virginia 22090.

Society of Petroleum Engineers of AIME, 6200 North Central Expressway, Dallas, Texas 75206.

Society of Plastics Engineers, Inc., 656 West Putnam Avenue, Greenwich, Connecticut 06830.

Society of Women Engineers, 345 East 47th Street, New York, New York 10017.

# Institutional Changes Since the 1980 Edition

Following is an alphabetical listing of institutions that either closed or opened last year, merged with other institutions, or changed their names. In the case of a name change, the former name appears first here, followed by the new name; only the new name is used throughout the Guide. For mergers, the names of the separate institutions are given, followed by the new name.

Campus-Free College (Washington, D.C.): name changed to Beacon College.

Evangelical Lutheran Theological Seminary (Columbus, Ohio) and Hamma School of Theology (Springfield, Ohio): merged to form Trinity Lutheran Seminary.

Gannon College (Erie, Pennsylvania): name changed to Gannon

Immaculate Heart College (Los Angeles, California): closed.

Jesuit School of Theology (Berkeley, California): name changed to Jesuit School of Theology at Berkeley.

Maryville College (St. Louis, Missouri): name changed to Maryville College-Saint Louis.

Massachusetts College of Pharmacy (Boston, Massachusetts): name changed to Massachusetts College of Pharmacy and Allied Health Sciences.

Nova Scotia Technical College (Halifax, Nova Scotia, Canada): name changed to Technical University of Nova Scotia.

Texas Tech University School of Medicine (Lubbock, Texas): name changed to Texas Tech University Health Sciences Center.

University of Tennessee at Nashville: merged with Tennessee State University, Nashville.

Washington Theological Coalition (Silver Spring, Maryland): name changed to Washington Theological Union.