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DIRECTIONS

The Medical College of Ohio is located between Arlington and Glendale Avenues east of Byrne Road.

From I-75 to I-475 Northbound or U.S. 23/475 Southbound:
Take Airport Hwy. exit (Route 2). Airport Highway east to Byrne Road, turn right to Arlington Avenue, left to MCO entrance.

From I-75 Southbound:
Use exit marked "Maumee/U.S. 25" to Anthony Wayne Trail; take Glendale Avenue west to MCO entrance.

From Ohio Turnpike, East or Westbound:
Use exit 4; go north on Reynolds Road to Glendale Avenue; turn right on Glendale (approx. 1/2 mile). Turn left at MCO entrance.

To reach the Cardiac Catheterization Facilities:
Address:
Medical College of Ohio
3000 Arlington Avenue
Toledo, Ohio 43614

Telephone:
419-381-3697 or, 800-321-8383, ext. 3697
Official Announcement
For Members Only

Saturday, April 23, 1994
5:15 P.M.
Medical College of Ohio at Toledo
Dana Conference Center
Lucas

ANNUAL BUSINESS MEETING FOR THE MEMBERSHIP:

There shall be an Annual Business Meeting for the membership of the Academy during the Annual Meeting. The business session shall be conducted in accordance with the most recently published edition of "Robert's Rules of Order". The order of procedure shall be as follows:

A. A Call to Order by the President.
B. A summary of the Minutes of the previous meeting shall be read by the Secretary.
C. Presentation of the report of the tellers of the election of officers and other positions.
D. Voting on any proposed amendments to the Constitution or By-Laws.
E. Business from the floor.
F. Adjournment.

PROPOSED AMENDMENTS TO THE CONSTITUTION OF THE OHIO ACADEMY OF SCIENCE (1) TO DEFINE THE TERMS OF SERVICE OF THE ACADEMY SECRETARY AND TREASURER, (2) TO CREATE THE OHIO ACADEMY OF SCIENCE DEVELOPMENT COUNCIL, AND (3) TO ENABLE THE ACADEMY GOVERNING COUNCIL, EXECUTIVE COMMITTEE AND OTHER COMMITTEES TO CONDUCT BUSINESS BY MAIL OR OTHER ELECTRONIC MEANS.

Text approved by the Governing Council on March 4, 1994 for consideration by the membership of The Ohio Academy of Science.

NOTE:

New wording is indicated by BOLD ALL CAPITALS; deleted wording is indicated by bold strikethrough.

ARTICLE IV - OFFICERS

3. SECRETARY:

C. Term of Office: The term of office shall commence immediately upon election AND SHALL BE FOR THREE YEARS. In order to provide continuity in the affairs of the Academy, the Secretary shall automatically continue to serve as a member of the Executive Committee and Governing Council for a term of one year. The terms of the Secretary and Treasurer SHALL not terminate in the same calendar year.

4. TREASURER:

E. Term of Office: The term of office shall commence on the first of July following the date of election AND SHALL BE FOR THREE YEARS. Upon completion of the term, the Treasurer SHALL automatically continue to serve as a member of the Executive Committee and Governing Council for a term of one year. The terms of the Treasurer and the Secretary SHALL not terminate in the same calendar year.

ARTICLE V—COUNCILS

1. THE GOVERNING COUNCIL:

A. Membership: The Governing Council shall be composed of the President, President-elect, immediate Past President, Secretary, Treasurer, (when applicable, the outgoing Secretary or the outgoing Treasurer), Editor of The Ohio Journal of Science, Senior Academy Director, Junior Academy Director, Director of the Industrial and Business Council, CHAIRPERSON OF THE DEVELOPMENT COUNCIL, Secretary, The Ohio Academy of Science Foundation, Chief Executive Officer, Representatives to the American Association for the Advancement of Science, Representatives to the National Association of Academies of Science, Representative to the Executive Committee of the Ohio Biological Survey, Historian-Archivist, the at-large members of the Executive Committee, and the Chairpersons of all standing and temporary committees.

6. THE DEVELOPMENT COUNCIL

A. PURPOSE AND GOALS: THE PURPOSE OF THE DEVELOPMENT COUNCIL IS TO DEVELOP FINANCIAL SUPPORT FOR THE OHIO ACADEMY OF SCIENCE AND THEREBY FORWARD AND ENHANCE ITS MISSION BY: DEVELOPING AND IMPLEMENTING POLICIES AND PROCEDURES TO BE ADOPTED BY THE ACADEMY'S GOVERNING COUNCIL IN ORDER TO 1. IDENTIFY, 2. QUALIFY, 3. CULTIVATE, 4. SOLICIT, AND 5. RECOGNIZE DONORS.


(2) THE PROFESSIONAL DEVELOPMENT OFFICER WILL ATTEND ALL MEETINGS OF THE DEVELOPMENT COUNCIL, EXECUTIVE COMMITTEE, AND GOVERNING COUNCIL AS AN EX-OFFICIO, NON-VOTING MEMBER.

(3) TREASURER, CHIEF EXECUTIVE OFFICER: THE ACADEMY'S TREASURER, AND CHIEF EXECUTIVE OFFICER WILL PROVIDE THE DEVELOPMENT COUNCIL WITH REPORTS ON INCOME AND EXPENDITURES CONSISTENT WITH THE NEED TO REPORT TO DONORS.

C. MEETING: A MINIMUM OF TWO REGULAR MEETINGS WILL BE HELD ANNUALLY. SUB-COMMITTEE AND OTHER DEVELOPMENT COUNCIL MEETINGS WILL BE HELD AS NEEDED.

D. DUTIES:

(1) GOVERNING DOCUMENT: THE DEVELOPMENT COUNCIL SHALL PREPARE A GOVERNING DOCUMENT TO BE APPROVED BY THE EXECUTIVE COMMITTEE AND GOVERNING COUNCIL OF THE ACADEMY. THE DOCUMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:


B. STAFFING PLAN: THE STAFFING PLAN WILL DEFINE THE SKILLS AND QUALIFICATIONS REQUIRED OF THE PAID OR CONTRACT AGENT(S) SERVING AS THE PROFESSIONAL DEVELOPMENT OFFICER AND ANY SUPPORT STAFF. IT WILL CONTAIN JOB DESCRIPTIONS WITH CLEAR EXPECTATIONS.

continued on next page...
C. BUDGET: THE BUDGET WILL IDENTIFY THE SOURCE AND PROCESS TO RAISE OR ALLOCATE START-UP FUNDS TO COVER STAFFING COSTS, EQUIPMENT, FUND RAISING SUPPLIES, AND MATERIALS.


E. RECRUITMENT PLAN: THE RECRUITMENT PLAN FOR DEVELOPMENT COUNCIL MEMBERS WILL BE DEVELOPED IN ORDER TO FIND THE RIGHT PEOPLE WITH THE INTEREST AND WILLINGNESS TO SERVE ON THE DEVELOPMENT COUNCIL AND TO SOLICIT FUNDS ON BEHALF OF THE ACADEMY. IT WILL CONTAIN A JOB DESCRIPTION AND A SUCCESSION PLAN TO INSURE LONG TERM STABILITY OF THE DEVELOPMENT EFFORTS.

F. TABLE OF ORGANIZATION: THE TABLE OF ORGANIZATION WILL ESTABLISH STANDING SUB-COMMITTEES OF THE DEVELOPMENT COUNCIL. AT THE DISCRETION OF THE DEVELOPMENT COUNCIL ADDITIONAL SUB-COMMITTEES MAY BE ESTABLISHED.

G. DONOR PROFILE SYSTEM: THE DONOR PROFILE SYSTEM DATABASE WILL CONSIST OF A GIVING HISTORY TO THE ACADEMY, DONOR INTERESTS, DONOR GIVING POLICIES OR PREFERENCE, DONOR LINKAGE TO THE ACADEMY AND OTHER PERTINENT INFORMATION FOR APPROPRIATE CULTIVATION, SOLICITATION AND RECOGNITION OF INDIVIDUALS, CORPORATIONS, FOUNDATIONS, ORGANIZATIONS AND GOVERNMENT ENTITIES.

(2) THREE YEAR PLAN: A THREE YEAR PLAN, UPDATED ANNUALLY, SHALL BE DEVELOPED BY THE DEVELOPMENT COUNCIL AND SUBMITTED TO THE GOVERNING COUNCIL FOR APPROVAL. THE PLAN WILL BE SPECIFIC TO THE FUND RAISING ACTIVITIES REQUIRED TO MEET THE BUDGETS FOR EACH APPROVED ACTIVITY OF THE ACADEMY.

(3) FEASIBILITY REVIEW: A FUNDING FEASIBILITY REVIEW WILL BE CONDUCTED BY THE DEVELOPMENT COUNCIL PRIOR TO THE FINAL APPROVAL OF THE GOVERNING COUNCIL OF A FINAL PLAN, PROGRAM, PROJECT, OR THE PROGRAM OR PROJECT BUDGET. THE DEVELOPMENT COUNCIL WILL BE PRESENTED WITH AN OUTLINE OF THE PROPOSED ACTIVITY AND THE ANTICIPATED COSTS AND WILL RECOMMEND TO THE GOVERNING COUNCIL THE VIABILITY OF FUNDING OF THE PROJECT THROUGH THE DEVELOPMENT COUNCIL ACTIVITIES.

ARTICLE VI-COMMITTEES

1. EXECUTIVE COMMITTEE:

A Membership: All members of the Executive Committee shall be Members of the Academy. The membership of the Executive Committee shall consist of the President, President-elect, immediate Past President, Secretary, Treasurer, (when appropriate, either the outgoing Secretary or Treasurer), Director of the Senior Academy, Director of the Junior Academy, Editor of The Ohio Journal of Science, Director of the Industrial and Business Council, CHAIRPERSON OF THE DEVELOPMENT COUNCIL, and six at-large positions, two each from industry, government, and academia who are elected to two year staggered terms each by the membership.

ARTICLE X—RULES OF ORDER

1. All Councils, Committees and other deliberative bodies of The Ohio Academy of Science shall conduct their business according to the most recently published edition of "Robert’s Rules of Order."

2. UNLESS DISCUSSION IS REQUESTED, WHICH MAY BE FACILITATED BY A CONFERENCE CALL, ANY ACTION WHICH CAN BE TAKEN OR AUTHORIZED AT A MEETING OF THE GOVERNING COUNCIL, EXECUTIVE COMMITTEE OR OTHER DELIBERATIVE BODIES AND COMMITTEES MAY BE TAKEN OR AUTHORIZED WITHOUT A MEETING BY APPROVAL OF TWO-THIRDS OF THE MEMBERS IN OFFICE BY TELEPHONE, FAX, OTHER ELECTRONIC MEANS, OR BY MAIL VOTE.

-END OF PROPOSED AMENDMENTS-
ALL presenters and other participants must register. Access to sessions by name tag only. Name tags and information packet will be available at Meeting Registration Desk. Please return the completed registration form along with the appropriate fees to the address printed below. A confirmation and receipt for pre-registration received by April 13 will be mailed to the address listed below. Those registered after April 13 will be able to pick up their receipt at the Meeting Registration Desk.

PLEASE PRINT OR TYPE. Please use a separate form for each registration. COPY this form as needed.

Circle; Ms. Mrs. Mr. Dr. NAME _______________ TITLE _______________
SCHOOL or EMPLOYER ______________________ Social Security Number _______________
ADDRESS __________________________________________ IS THIS A HOME ADDRESS? Yes No
CITY __________________________ STATE _____ ZIP _____________
HOME PHONE (___) __________ WORK PHONE (___) __________ FAX (___) __________

REGISTRATION FEES: Please fill in the amount. One fee covers ALL THREE DAYS. To avoid higher rates, advance registration and payment must be received by April 13, 1994. On-site registration will be accepted at the higher rate.

Member of The Ohio Academy of Science
Professional Registration $30 ($35 after April 13, 1994) $ ________
Student Registration $15 ($20 after April 13, 1994) $ ________

Non-Member - includes membership for FIRST TIME members only.
Professional Registration $70 ($75 after April 13, 1994) $ ________
Student Registration $30 ($35 after April 13, 1994) $ ________

RENEWAL of Membership in The Ohio Academy of Science
Student $15 Professional $50 Family $60 $ ________

MEALS (available ONLY by preregistration. N.A. after April 13, 1994)
Friday, April 22 Dinner $20.00 $ ________
Saturday, April 23 Banquet $20.00 $ ________

TOTAL ENCLOSED $ ________

WHICH OF THE FOLLOWING WILL YOU ATTEND?

FRIDAY, April 22, 1994
_____ Geology Symp. _____ Tour of Sun Oil Co. Refinery

SATURDAY, April 23, 1994
_____ Technical Section paper and poster presentations
_____ All-Academy Lecture
_____ Internet Workshop (Advance registration required)

SUNDAY, April 24, 1994
_____ Geology Field Trip

MAIL FORM WITH PAYMENT TO:

Center for Continuing Education
Medical College of Ohio
OAS Annual Meeting Registration
P.O. Box 10008
Toledo OH 43699

Phone (419) 381-4237
FAX (419) 381-4025

Advance Registration Deadline: April 13, 1994

METHOD OF PAYMENT: Phone and FAX registrations will be accepted if Purchase Order, MasterCard, or VISA are used. NO REFUNDS AFTER April 20, 1994.

_____ Confirms a phone or FAX registration.
_____ Check enclosed (payable to Medical College of Ohio - CCE)
_____ I have enclosed a purchase order.
_____ Charge my credit card. _____ VISA _____ MASTERCARD

Card Number ___________________________ Exp. Date ________________________

Cardholder signature ___________________________
Preliminary Call for Papers

104th Annual Meeting -- April 28-30, 1995

The Ohio Academy of Science

To be held at

Otterbein College,
Columbus,
and Co-hosted by

Ross Products Division of Abbott Laboratories,

Columbus

Poster and Podium Presentations on Saturday, April 29, 1995

Abstract deadline: Postmarked by December 1, 1994

For additional abstract forms or further information call or write:

The Ohio Academy of Science
P.O. Box 12519
Columbus, OH 43212-0519
Phone or FAX (614) 488-2228
JOURNAL Manuscripts should be typewritten with wide margins on 21.6 x ing of data collected in the presented study with that previously reported in data in text form. Reference to tables and figures included in this section reported study. This section should not be simply a listing of the tabulated main findings, both positive detail to allow the reader to attempt replication of the reported research. If others, any unique modifications of the standard procedure should be explained," or "is discussed" should not be used. Abstracts from THE METHODS OR PROCEDURES CRITICAL TO THE RESULTS OF THE STUDY. THE ABSTRACT SHOULD BE SELF-SUFFICIENT FOR THE PRESENTATION OF MAIN CONCLUSIONS AND ANY NEW TABLES, FIGURES, OR COPIES OF ANY FIGURE NUMBER, AND ON THE BACK WITH NAME OF AUTHOR(S) AND MANUSCRIPT TITLE. ILLUSTRATIONS OTHER THAN THOSE GENERATED BY THE AUTHOR MUST BE PERMITTED FOR USE AND CREDIT TO THE ORIGINAL ART WORK WILL NOT BE RETURNED UNLESS SPECIFICALLY REQUESTED AT TIME OF SUBMISSION. THE AUTHOR MUST SUPPLY A STAMPED SELF-ADDRESSED ENVELOPE FOR RETURN. THE SIZE AND PROPORTIONS OF EACH ILLUSTRATION OR GROUP OF ILLUSTRATIONS SHOULD BE SUITABLE FOR REDUCTION TO THE WIDTH AND LENGTH OF THE PRINTED PAGE (17.8 x 24.1 cm; 7 x 9.5 in.). CARE SHOULD BE TAKEN TO MINIMIZE THE SPACE OCCUPIED BY ANY FIGURE, AND EXCESSIVE WHITE SPACE SHOULD BE AVOIDED. LINE DRAWINGS SHOULD NOT EXCEED 20 x 25 cm (8 x 10 in.). IF CAREFULLY DRAWN, FIGURES NEED BE NO LARGER THAN 33% LARGER THAN THE SIZED FOR PRINTING. LETTERS SHOULD BE DEIGNED OF A SIZE TO ENSURE THAT IT CAN BE READ AFTER REDUCTION. ON MAPS AND OTHER ILLUSTRATIONS WHERE ORIGINAL SIZE IS A CONCERN, A GRAPHIC SCALE SHOULD BE INCORPORATED INTO THE FIGURE. THE ORIGINAL ART WORK FOR EACH ILLUSTRATION, TWO PHOTOCOPIES OF EACH SHOULD BE SUBMITTED TO AVOID DELAY IN THE REVIEW PROCESS. FOOTNOTES. Text footnotes should not be used with the following exceptions. A footnote to the title will be added editorially to state the dates of manuscript submission and revision. A footnote to name(s) of author(s) may be used to indicate a present address different from that at which the research was done, or to indicate the author to whom inquiries should be directed. All other material or comments must be incorporated into the text. IN NO CASE SHOULD ILLUSTRATION CITATIONS BE INSERTED AS FOOTNOTES. THEY MUST BE LISTED IN THE LITERATURE CITED SECTION. FOOTNOTES TO TABLES ARE PERMISSIBLE, AND ARE ENCOURAGED TO PROMOTE CLARITY. ATTENTION TO THE ABOVE INSTRUCTIONS WILL MINIMIZE THE NEED FOR REVISION AND EDITORIAL CORRECTION, AND WILL SHORTEN THE TIME FROM SUBMISSION TO PUBLICATION. ANY QUESTIONS WHICH ARE NOT ANSWERED BY THESE INSTRUCTIONS, BY EXAMINING PAPERS IN RECENT ISSUES OF THE JOURNAL, OR BY THE CBE STYLE MANUAL, 5TH ED., SHOULD BE ADDRESSED TO THE EDITOR.
103rd Annual Meeting
The Ohio Academy of Science
Hosted by
The Medical College of Ohio
Toledo
April 22-23-24, 1994

General Schedule

Friday, April 22, 1994
8:00 AM - 3:00 PM  Registration in the Dana Conference Center
9:00 AM - 11:30 AM  Tour of Sun Oil Company Refinery
9:00 AM - noon  Geology Symposium
12:00 noon  Lunch (on your own)
1:30 PM - 5:00 PM  Geology Symposium
2:00 - 5:00 PM  Ohio Academy of Science Governing Council Meeting
3:00 - 5:00 PM  OBS Executive Committee Meeting
5:00 - 6:00 PM  Reception
6:00 PM  Joint Dinner of Ohio Academy of Science and Ohio Biological Survey
8:00 PM  Ohio Biological Survey Advisory Committee

Saturday, April 23, 1994
8:00 AM - 3:00 PM  Registration in Dana Conference Center
8:00 AM - 9:00 AM  Past Presidents Breakfast
9:00 AM - 11:00 AM  Morning poster and podium presentations
9:00 AM - 11:00 AM  Environmental Symposium
9:00 AM - 10:00 AM  Internet Workshop
11:15 AM  ALL ACADEMY LECTURE by Dr. Roger C. Bone, MCO President
12:00 noon  Lunch (on your own)
1:30 PM - 5:00 PM  Afternoon poster and podium presentations
5:15 PM  Annual Business Session for Members Only
5:30 - 6:30 PM  Reception
6:30 PM  Banquet and Awards Ceremony

Sunday, April 24, 1994
9:00 AM - noon  Geology Field Trip to Esrock Materials, Inc. quarry.