HANDBOOK

of the

Collegiate Academy

of the

North Carolina Academy of Science

Collegiate Academy
North Carolina Academy of Science
Since 1902

Edited by Hugo C. Lane, Executive Director, 1986
Revised by Hugo C. Lane, 1988
Revised by Mary Beth Thomas, Executive Co-Director, 1998
Revised by Karen Guzman, Executive Director, 2005 & 2007
‘...the raison d’etre for the organization is the stimulation of scientific research done by and reported by college students.’

From: “A lusty child dreams about its future!” John A. Yarbrough, Secretary-Treasurer of the North Carolina Academy of Science in CANCEL, volume 2, number 2 (March, 1956).
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PART I. ACTIVITIES

A. Programs and Awards

1. Annual Meeting

The Annual Meeting of the Collegiate Academy is held in conjunction with the Senior Academy of the North Carolina Academy of Science in March or April of each year. The meeting is held from Friday evening through Sunday on the campus of one of the colleges or universities in the state. Papers sessions are set up by discipline and papers presented by members of the Collegiate Academy are interspersed with papers presented by members of the Senior Academy. Papers can be presented in the form of oral or poster presentations. Presentations by Collegiate Academy members are eligible for the John B. Derieux Competition.

In addition to the posters and oral presentations, the Annual Meeting usually includes a luncheon with a lecture by a prominent scientist, business meetings of the Collegiate and Senior Academies, and an awards presentation ceremony. Field trips are often scheduled for Sunday.

All students who attend the Annual Meeting must pay a registration fee. In addition, all undergraduates who present their research at the meeting must be current members of the Collegiate Academy, either through group or individual membership. Memberships can be obtained at registration.

2. John B. Derieux Competition

This activity is the centerpiece of the Collegiate Academy, culminating in the awarding of certificates and, to the first place winners, commemorative plaques. The competition is held at the Annual Meeting of the Collegiate Academy.

Any undergraduate student may present his or her research for competition as long as the student submits a title and abstract fee by the published deadline, registers at the Annual Meeting, and is a member of the Collegiate Academy (see A1). Any recently graduated student may present a paper for competition provided that the student presents work that was entirely conducted while the student was an undergraduate and has been graduated for no more than one academic year. Individuals that are eligible for the award are indicated in the program by an asterisk following their name. Faculty judges are recruited by the Executive Director(s) and anonymously judge the presentations.

   a. Call for Papers. In November, the call for papers is issued by the North Carolina Academy of Science to its members and this announcement is forwarded to Collegiate Academy members via email. Students should request the appropriate forms from their research sponsor or club advisor.

   The call for papers includes the deadline and address for submitting paper titles. Titles must be submitted by the published deadline; an abstract fee is required at the time the title is submitted. The Call for Papers also describes the format for abstracts, due at the time of the meeting. Procedures and formats must be followed precisely to ensure that a paper is not disqualified from competition.
b. **Abstracts.** At the annual meeting, each student must submit an electronic copy (on disc or by email) of the abstract of the paper before the session begins (usually at registration). Abstracts must conform precisely to the instructions included in the Call for Papers.

c. **Presentation.** Each student is allotted 15 minutes, of which the last several (usually the last 3) are to be used for questions and answers. Projection equipment for PowerPoint slides will be available. Students wishing to use additional audiovisual equipment (e.g. VCR, DVD, etc.) should make a request and arrangements with the Annual Meeting Committee well in advance of the meeting to see if the desired equipment will be available.

d. **Judging.** For each session that includes a presentation that is eligible for the Derieux Award, at least one or two faculty judges will be in attendance to evaluate the presentation according to predetermined criteria (see below). The judges will be faculty whose scientific interests are found in the general area of the presentation contained in that session.

    Judges will have met with the Executive Director(s) to review procedures. Judges will attempt to evaluate the intellectual independence of each candidate, especially by the candidate’s ability to answer questions at the end of the presentation. The following criteria and point distribution is recommended as a guideline to the judges to assist them in their task:

    **Oral presentations:**
    - Research Content (60 points):
      - Design of experiment (15 pts), analysis of data (20 pts), validity of conclusions (15 pts), comprehensiveness (10 pts)
    - Presentation (40 points):
      - Organization (10 pts), quality of visual aids (5 pts), proper use of visual aids (5 pts), preparedness (5 pts), responses to questions (15 pts)

    **Poster presentations:**
    - Research Content (40 points):
      - Design of experiment, analysis of data, validity of conclusions, comprehensiveness
      - Ability to Communicate the Research by Visual Format (30 points):
        - Clarity, logic & flow, quality of visual presentation
    - Presenter (30 points):
      - Knowledgeable, confident, clear & interesting

e. **Presentation of Awards.** The names of the winners will be announced and awards presented at an awards ceremony at the annual meeting. Competing students should plan to attend this meeting. Names of winners are also included in the Proceeding of the *Journal of the North Carolina Academy of Science*, the *Newsletter of the North Carolina Academy of Science*, and in the Annual Report of the Collegiate Academy. All winners of Derieux Awards are invited to submit the text of their winning paper for inclusion in the *Journal of the North Carolina Academy of Science*, the senior
academy’s official journal. The article will go through the normal review process and, if accepted, the author will be granted up to three pages free.

3. Research Workshop

The Fall Undergraduate Research Workshop is held each year in October or November at one of the colleges or universities or another appropriate venue. Any student who plans to present a paper at the annual meeting, who is a recipient of a Yarbrough Research Grant, or who is interested in attending graduate school will find this program quite valuable.

The objectives of the Fall Workshop are (1) to stimulate student interest in undergraduate research through inspirational seminars and (2) to empower students to do the research by providing “how-to” seminars. The organizing committee chooses a variety of topics each year, but some of the “how-to” seminars have previously focused on:

- How to develop ideas about a research project
- How to design a research experiment
- How to research the literature
- How to analyze data
- How to write a research paper for publication
- How to present a paper orally or in poster format
- How to prepare effective illustrations
- How to use visual aids to enhance presentations
- How to write grant proposals

Workshop participants have an opportunity to network with undergraduate students from other institutions as they learn valuable skills for conducting research. Students are encouraged to use these skills to participate in an undergraduate research project and to present their results at the academy’s annual meeting. Information related to the John B. Derieux paper competition, which is held each year at the annual meeting, is provided and participation encouraged.

The schedule and topics of the workshop are announced by mail (electronically or by postal service) in September or October. This all-day event is open to any student with a nominal registration fee that helps to cover costs. The host institution, working with the Executive Committee, may expand the workshop to a two or three-day meeting. For example, such a format might include discussion of a general topic such as “Ethics in Science” on the evening prior to the workshop and a field trip on the day after the workshop. Additional fees may be required to cover the cost of the additional activities.

4. Yarbrough Research Grants

From the beginning, monies have been made available for research or to reward research activities. The Yarbrough Research Grants Committee administers the grants on behalf of the North Carolina Academy of Science, making available small awards to faculty-sponsored research proposals that are well thought and properly prepared. Grants are awarded on a competitive basis to quality undergraduate research. This is a great opportunity
for students to organize their thoughts concerning a research project and to learn important skills as they put together the proposal.

The call for research proposals is sent with the Senior Academy’s Newsletter in December, in the CANCAS Monthly News Notes and is also available through the CANCAS website (www.cancas.org). The deadline for receiving proposals is usually April 15.

Applicants must be Freshmen, Sophomores, or Juniors in good standing at any institution of higher learning in the State of North Carolina and must have a faculty sponsor to administer the research and its funding. Seniors may apply only if they have an additional year of undergraduate education remaining. Although a student does not have to be a member of the Collegiate Academy to apply for or be awarded a grant, the student must become an individual or group member in good financial standing with the Collegiate Academy before the Treasurer of the North Carolina Academy of Science will disburse the monies. Procedures for becoming a member are stipulated in the call for proposals and notification of awards.

All grant recipients must present their research at the Annual Meeting. If the paper wins an award, the winner is eligible to submit the text of the work to the editor of the Journal of the North Carolina Academy of Science for possible inclusion in the journal with page charges waived for the first three printed pages.

Awardees who fail to begin or to complete a project or who cannot generate sufficient data for competition must submit a report of their activities, both experimental and financial, to the chair of the Research Grants Committee and refund unused portions of the grant to the Chair of the Yarbrough Grants Committee.

5. Lecture Program

A major objective of the Lecture Program is to expose students to different areas of scientific research and to stimulate interest in particular fields of science with the hope that students may develop ideas for a research topic. A List of Speakers, providing the names and topics of faculty participating in the program, and instructions for requesting speakers are posted on the website of the Collegiate Academy of the North Carolina Academy of Science (www.cancas.org). The Collegiate academy encourages each club to invite as many speakers as they wish.

The speaker’s institution usually covers transportation of the speaker from their institution to the club’s institution. Meals and lodging are the responsibility of the club and the club should make these arrangements in advance of the visit.

6. Travel Grants

Financial assistance is made available to students wishing to attend the Fall Undergraduate Research Workshop and the Annual Meeting if the member’s institution cannot cover travel expenses. The grant is used to reimburse the gasoline cost of the round trip miles traveled on each trip. Students should try to reduce costs by traveling by car-pool or van.

Application for travel reimbursement must be made to the Collegiate Academy by the club advisor or research sponsor. Additional information should be obtained and
arrangements made in advance through the Executive Director(s). After such arrangements are made, a form must be completed at the registration desk at the workshop or meeting. Information of miles traveled, unit cost per gallon of gasoline, the number of students traveling, and the type of vehicle used must be included. Also, included should be a statement about the lack of availability of travel funds from the host institution.

7. Club Activities Award

The Collegiate Academy encourages clubs to promote undergraduate research at their home institutions and to serve their community. The Club Activities Award recognizes excellence in these endeavors. [Note: This program is not active every year but depends on the interest and activity of member clubs] Trophies are given to two clubs: a club from an institution with fewer than 3000 enrolled undergraduates and a club from an institution with an undergraduate enrollment over 3000.

Selections are based on Club Activities Reports. The report should be one page long. In addition, clubs are encouraged to submit an electronic scrapbook along with the report (PowerPoint, html, and pdf files are acceptable formats). A paper copy of the report and a disk or CD containing the report and scrapbook (if applicable) should be submitted at the registration desk at the Annual Meeting.

A committee will be appointed by the President of the Collegiate Academy to judge the reports. This committee is generally composed of club officers attending the Annual Meeting, but may include additional CANCAS members as deemed necessary by the president. When possible, officers of clubs from the smaller schools judge the larger clubs and vice versa. Trophies are presented to the winning clubs immediately after presentation of the John B. Derieux Awards.

8. Field Trips

A spring field trip usually follows the Annual Meeting. In addition, at the discretion of the Executive Committee of the Collegiate Academy, a field trip may be held in association with the Fall Undergraduate Research Workshop or at any other time. The objectives of field trips are to facilitate interactions among CANCAS members in a nonacademic setting to share ideas about research and club activities; to visit some of the scientific and/or cultural resources within the state; and just to have fun. Information about field trips is included in the CANCAS Monthly News Notes and, if associated with the workshop or meeting, along with the announcements.

9. Business Meetings

The Collegiate Academy holds two business meetings each year, one in the fall (usually associated with the Fall Undergraduate Research Workshop) and one in the spring (in association with the Annual Meeting). Election of officers occurs at the spring business meeting. In addition, the Executive Committee meets twice a year, generally in April and in the fall (usually September or at the fall workshop). Additional meetings can be scheduled as the need arises. The April meeting gives the new officers a chance to make plans for the upcoming year. The Fall meeting focuses on plans for the Undergraduate Research Workshop (if held in September), preliminary plans for the Annual Meeting, and other plans for the
year. All members of the Collegiate Academy are invited to attend meetings of the Executive Committee. Dates, times and locations are announced in the Monthly News Notes.

B. Communication & Dissemination of Information

1. Publications, Announcements and News

   Just as communication is critical to the advancement of scientific research, communication is essential to any viable, vibrant organization. There are a number of ways for CANCAS members to remain informed about CANCAS activities and to learn about the research activities of its members. Most routine forms of communication will be done electronically, but paper copies will be sent out by regular mail to any individuals not able to access the electronic communications. The best way to stay informed each month is through the Monthly News Notes (described in more detail below) that are distributed to the CANCAS email list. Archived News Notes are available at the Collegiate Academy’s website. The CANCAS email list is composed of addresses that have been listed on the membership form, so the list generally includes the group advisor(s) and club president (if applicable). These individuals may choose to distribute CANCAS information to each member of the club or group, but individual members may request to receive information directly by asking to have their email address added to the list. This request can be made by email or at one of the CANCAS business meetings by providing your name, email address and affiliation (academic institution and club/group name if applicable).

2. Monthly News Notes

   Near the beginning of each month, an email will be sent out to the CANCAS email list (see I. B. 1 for information on the composition of this list) containing news of interest to CANCAS members. This mailing will include: highlights of future and past events, announcements, and notification of new information added to the website (e.g. postings of recent pictures). In addition to the News Notes, information is often submitted to the senior academy for inclusion in their newsletter. The Senior Academy’s newsletter is also distributed to the CANCAS email list.

3. CANCAS Corner

   The CANCAS Corner is the official website of the Collegiate Academy and is located at www.cancas.org. This site is a great resource for CANCAS members. The site includes information about the organization (such as current Executive Committee members along with their contact information), current news-worthy information (e.g an archive of the Monthly News Notes), links to information about the workshop and annual meeting, a list of current Derieux award winners, links to information about undergraduate research grants and meetings, and much more.

4. Fall Workshop, Annual Meeting and Other Announcements

   In the Fall, the President of the Collegiate Academy will send a letter to CANCAS members outlining the initiatives for the coming year. Membership forms and other
CANCAS information will be included in this mailing. This packet will be sent out to the CANCAS email list, but an abbreviated mailing may also be sent by regular post. To encourage membership in CANCAS, the packet will also be sent to clubs or institutions that were former or are prospective members.

In the fall, an announcement and detailed information will be sent out to the CANCAS email list concerning the Fall Undergraduate Research Workshop. Depending on the timing, this may be included in the packet sent out by the President of CANCAS. A brief announcement will also be sent out by regular mail to CANCAS members and other interested individuals. The web page will also have a posting to announce the workshop.

In the spring, information will be sent out concerning the Annual Meeting which is held jointly with the Senior Academy. The Senior Academy and a local meeting committee coordinate the arrangements and the announcements for this event. As soon as this information is available, it will be forwarded to the CANCAS email list.

5. Publications

The abstracts of all papers entered into the John B. Derieux competition at the Annual Meeting are published by the North Carolina Academy of Science in the proceedings issue of its official journal, The Journal of the North Carolina Academy of Science. The proceedings issue also contains the abstracts of all presentations of the Senior Academy.

Winners of Derieux Awards for Excellence in Undergraduate Research are invited to submit manuscripts of their research for publication in the The Journal of the North Carolina Academy of Science. The Collegiate Academy will pay page charges for the first three printed pages of the published article; additional pages may be included, but with page charges paid by the author. Published papers will bear the designation “Winner of (category) John Bewley Derieux Award for Excellence in Undergraduate Research in (year)”. Manuscripts must be submitted to the journal within one calendar year following receipt of the award. The Journal of the North Carolina Academy of Science is a refereed journal and manuscripts will therefore be evaluated through the normal review process. The Editor determines if the manuscript will be accepted for publication in the journal.

6. Handbook

The Collegiate Academy is governed by its own constitution and Article IX of the bylaws of the North Carolina Academy of Science, published in this Handbook. The Handbook also contains officer responsibilities and the history of the Collegiate Academy. The Handbook is freely available for download or printing on the CANCAS website (www.cancas.org), although paper copies are available to members upon request.

7. Annual Report

The CANCAS secretary helps to prepare the Annual Report of the Collegiate Academy at the end of his or her term. The report is submitted to the NC Academy of Science board of Directors by the Executive Director(s), then posted on the CANCAS website (www.cancas.org).
C. **Finances**

1. **Dues**

   Dues are assessed for two categories of membership: individual and group. The actual dollar amount is adjusted by the Executive Committee of the Collegiate Academy. Individual membership is open to any undergraduate from a recognized institution of higher learning in the state of North Carolina. Group membership is open to any collection of students from a single recognized institution of higher learning in North Carolina that interacts together on a regular basis and is able to identify a faculty member to act as a central contact. Examples of groups may include science clubs, undergraduates within a department, or another similar entity. The faculty contact person may be a club advisor or another individual within the department, but the contact person must be willing to facilitate communication with group members either through regular meetings, an email distribution list, or other forum.

   Additional dues are imposed upon individual members and members of clubs who subscribe to all issues or only the proceedings issue of the *The Journal of the North Carolina Academy of Science*. The Board of Directors of the North Carolina Academy of Science determines this amount.

   Announcement of membership renewal for each academic year is issued in the packet that is sent out in the fall. Membership information and forms are also available on the CANCAS website (www.cancas.org) early in the semester. The deadline for payment of dues for the academic year is November 15th and is past due after January 15th. Members are encouraged to complete their membership application as early as possible after the beginning of the academic year so that contact information can be updated. This will ensure that members do not miss important notices.

2. **Benefits**

   Members have the following rights and privileges. They may:
   
   a. Receive reduced meeting registration rates at the Annual Meeting
   b. Present papers for competition for the Derieux Award for Excellence in Undergraduate Research
   c. Receive a Yarbrough Research Grant Award
   d. Apply for travel grants to CANCAS meetings
   e. Vote at Business Meetings
   f. Hold office in the Collegiate Academy
   g. Receive Monthly News Notes and other mailings that keep you up to date on CANCAS activities and opportunities such as the Fall Workshop
   h. Request speakers from the Collegiate Academy Lecture Program
   i. Submit materials in the Club Activity Awards competition.
   j. Individual and group members are eligible to subscribe to all publications including *The Journal of the North Carolina Academy of Science*. 
3. **Budget**

The Executive Director (or one of the Executive Co-Directors) of the Collegiate Academy is the Treasurer of the organization and works in conjunction with the Treasurer of the North Carolina Academy of Science. The CANCAS budget is a part of the NCAS budget and as such, the Board of Directors of the North Carolina Academy of Science votes on it each year. A financial statement of the affairs of the Collegiate Academy is available to all members upon request.

Incoming funds are from dues, registration fees, donations, and fundraisers. Funding for the Yarbrough Research Grants comes from contributions to the Yarbrough Fund and the trust fund/operating budget of The North Carolina Academy of Science.

Expenses accrue from expenditures incurred by programs of the Academy and include a) publication and mailing costs, b) trophies and other awards, and c) travel grants. Expenses for use of the facilities for the Fall Undergraduate Research Workshop are generally borne by the sponsoring institution, but participants and/or the Collegiate Academy bear the expenses for meals and activities (e.g. field trips, socials) held in conjunction with the Workshop. Donations from the sponsoring institution for these items are always welcome.

### D. Officers and Responsibilities

The Student Officers and several Faculty Officers make up its Executive Committee. They have the responsibility for the management and organization of the programs and activities of the Collegiate Academy. Student Officers (President, Vice President, Secretary and Historian) are elected by the membership at the Spring Business Meeting. As with all voting in the Collegiate Academy, each member group or club casts one vote per institution and individual members collectively cast a single vote. The Board of Directors of the North Carolina Academy of Science appoints or approves Faculty Officers, except for the Faculty Advisor, which is the advisor of the elected student president.

The Student Officers include: President, Vice-President, Secretary and Historian. The Faculty Officers include: Executive Director(s), Chair of the Lecture Program, Chair of the Yarbrough Research Grants Committee and Faculty Advisor.

#### 1. President

The President is a member of the Board of Directors of the North Carolina Academy of Science. The President:

- a) prepares the agenda and presides over business meetings
- b) assists the Executive Director(s) in preparing the official mailings, especially the fall mailing that contains the president’s letter, information about membership, and information about the Fall Undergraduate Research Workshop. For more information see section I B4.
- c) secures judges for the Club Activities Awards when applicable
- d) assists in coordination of the Fall Undergraduate Research Workshop as needed
e) participates in registration at the Fall Undergraduate Research Workshop and at the Annual Meeting
f) participates in preparation and presentation of Derieux Awards at Annual Meeting
g) may assist section chair by moderating a session at the Annual Meeting

2. Vice President
   a) chairs meetings in the absence of the President
   b) assumes major responsibility for planning field trips and socials
   c) assists in coordination of the Fall Undergraduate Research Workshop as needed
d) participates in registration at the Fall Undergraduate Research Workshop and at the Annual Meeting
e) participates in preparation and presentation of Derieux Awards at Annual Meeting
f) may assist section chair by moderating a session at the Annual Meeting

3. Secretary
   a) records the minutes of all meetings and serves as Parliamentarian at all meetings: minutes are distributed to the members of the Executive Committee within two weeks of a meeting and are considered for approval at the next Executive Committee meeting or business meeting, as appropriate
   b) helps to prepare an Annual Report of CANCAS Activities
c) assists in coordination of the Fall Undergraduate Research Workshop as needed
d) participates in registration at the Fall Undergraduate Research Workshop and at the Annual Meeting
e) participates in preparation and presentation of Derieux Awards at Annual Meeting
f) may assist section chair by moderating a session at the Annual Meeting

4. Historian
   a) records photographically all activities of the Collegiate Academy
   b) assists in coordination of the Fall Undergraduate Research Workshop as needed
c) participates in registration at the Fall Undergraduate Research Workshop and at the Annual Meeting
d) participates in preparation and presentation of Derieux Awards at Annual Meeting
e) may assist section chair by moderating a session at the Annual Meeting
5. Executive Director or Executive Co-Directors  

This officer is a member of the Board of Directors of the North Carolina Academy of Science (in the case of Co-Directors, the two individuals cast a single vote). The Executive Director coordinates, oversees, and reports on all programs of the Collegiate Academy and, as Treasurer of the Collegiate Academy, reports to the Board of Directors for the finances of the Collegiate Academy. Executive Directors are nominated by the NCAS President-elect and approved by the NCAS Board of Directors.

6. Coordinator of the Lecture Program  

The Coordinator of the Lecture Program maintains a current list of speakers which is posted on the CANCAS website (www.cancas.org), coordinates the program, and prepares a summary of activities for the Executive Director(s) to include in the Annual Report. The position is appointed annually by the president of the North Carolina Academy of Science after consultation with the Director(s) of CANCAS.

7. Chair of the Yarbrough Research Grants Committee  

This officer heads a committee charged with soliciting applicants, awarding Yarbrough Research Grants, and ensuring the participation of recipients of grants in the Derieux competition. A report is submitted each year to the CANCAS Director(s) after funds have been disbursed. This report is included in the Annual Report. If additional business related to the Yarbrough Grants needs to be addressed by the NCAS Board of Directors, the CANCAS Director(s) can bring this to the board on behalf of the Yarbrough Grants Chair during a regular board meeting. The position is appointed annually by the president of the North Carolina Academy of Science after consultation with the Director(s) of CANCAS.

8. Faculty Advisor  

The Faculty Advisor is a faculty member from the President’s home institution. Typically this individual is the group/club advisor or research advisor of the President. The Faculty Advisor sponsors and assists the President.

9. Ad-hoc Members  

Ad-hoc Faculty Members can be appointed by the Executive Director(s) in order to have additional input from faculty advisors or to bring in expertise that can help round out the Executive Committee (e.g. faculty advisor from the physical sciences if the committee is heavily biology oriented). Ad-hoc members must be a member of the North Carolina Academy of Science.
PART II. HISTORY OF THE COLLEGIATE ACADEMY

A. Narrative Account

“The primary purpose of this organization is, of course, the stimulation of interest in research in science on the part of undergraduates. The officers, the new journal CANCAS, and the informal social affairs are all planned to encourage college science students to engage in and to discuss research. The Collegiate Academy encourages students to learn by doing.” So it was written by Dr. John A. Yarbrough, Secretary-Treasurer of the Senior Academy of the North Carolina Academy of Science in an article appearing in CANCAS in March 1956.

The Collegiate Academy was born in 1954 under the sponsorship of the North Carolina Academy of Science, with the leadership of its president, Dr. Donald B. Anderson. The Collegiate Academy first met at East Carolina University on May 7, 1954.

The first officers were Joe Rowland (East Carolina University) as President, Edyth McCauly (Elon College) as Vice President, and William Owens (Atlantic Christian College) as Editor.

Within the first year of its existence, the Collegiate Academy had 41 members from 12 colleges (Atlantic Christian, Catawba, Davidson, Duke, East Carolina, Elon, Flora McDonald, Greensboro, Guilford, Pfeiffer, University of North Carolina, Woman’s College of UNC and Western Carolina).

From the first, students competed for awards. Carolina Biological Supply Company made available two prizes, of $15 and $25, for the best two research papers in 1954.

In 1955, the North Carolina Academy of Science announced the John B. Derieux Memorial Award, in honor of Dr. Derieux from North Carolina State College “for the best essay on a topic in the field of modern physics.” The award was a cash prize of $50 and an engraved certificate. The award was broadened to include all scientific papers in 1957. In 1974, the membership replaced the cash prize with trophies and certificates.

The first issue of CANCAS, which included award-winning student papers, appeared in January 1955, and was published annually or biannually until 1997. In 1997, for financial reasons, the decision was made to terminate publication of CANCAS and to invite recipients of the first place awards in each section to submit papers to the Journal of the Elisha Mitchell Scientific Society. In 1998, the invitation was extended to include all award-winning papers.

Dr. Charlotte Dawley presented the Constitution of the Collegiate Academy at the fourth Annual meeting, held at Wake Forest College on May 2, 1957.

It is of interest to note that honorary memberships were offered to high school students with outstanding scientific potential in 1959.

Margaret Holland of Woman’s College of UNC was elected as the first Secretary-Editor in 1955, and in 1960, Peggy Culverhouse of East Carolina University was elected as the Academy’s first Historian. The positions of Secretary and Historian were consolidated into Secretary-Historian in 1987. Claudia Restrepo of Wake Forest University first held the new position. In 1996, the position was again separated into two offices; Ken Dunham of East Carolina University and Erin Kirkland of North Carolina A & T State University were elected Secretary and Historian, respectively.
The Lecture Program began under the sponsorship of Dr. T.W. Johnson of Duke University in 1957 “in an attempt to bridge the gap between scientists in the universities and the undergraduates in science throughout North Carolina.” Thirty-seven faculty offered topics in that year from the fields of botany, chemistry, geology, mathematics, physics and zoology.

In 1957 the North Carolina Academy of Science, under the leadership of the Secretary-Treasurer Dr. J.A. Yarbrough of Meredith College, offered it’s first Research Grants, administered by its Research Grants Committee. Grants were $25-$50 each.

The Undergraduate Research Workshop, introduced in 1983 by Dr. Michael Baranski of Catawba College, was “directed toward stimulating and increasing the quality of undergraduate research.” The first workshop was held that year at Wake Forest University. In 1997, the workshop was opened to beginning graduate students and renamed simply the Research Workshop.

The Travel Grant program was introduced by Dr. Hugo C. Lane of Wake Forest University “to financially assist students wishing to attend the research workshops and the Derieux Research Paper Competition.”

The Club Activities Award was added to the program by Dr. Hugo C. lane of Wake Forest University “to enhance interaction between the clubs and to stimulate the sharing of ideas and experiences.”

The Common Project, which has not been carried out in recent years, was proposed by Dr. Hugo C. Lane, of Wake Forest University, and agreed to by the membership at the 1988 Annual Business Meeting. Its purpose is “to capitalize on the intellectual resources of the membership in an exercise of common scientific endeavor and of citizenship.”

B. Student Officers of the Collegiate Academy

Presidents
1954-1955 Joe Rowland, East Carolina College
1955-1956 Charles Childs, University of North Carolina
1956-1957 William Owens, Atlantic Christian College
1957-1958 Henry Tschinkel, Duke University
1958-1959 Becky Surles, Meredith College
1959-1960 Tom Hopkins, East Carolina University
1960-1961 Ruby Blackmore, Atlantic Christian College
1961-1962 Barbara Tripp, East Carolina University
1962-1963 Gerry Martin, Pfeiffer College
1963-1964 Wiley Huneycutt, Pfeiffer College
1964-1965 Bonnie Coates, Mt. Olive College
1965-1966 Jo Anne Hendricks, Queens College
1966-1967 Gerald Phillips, Greensboro College
1967-1968 H. Todd Bullock, Pembroke State College
1968-1969 Nate Brinn, Atlantic Christian College
1969-1970 Tom Jones, Methodist College
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>1970-71</td>
<td>Lynn McDowell</td>
<td>Meredith College</td>
</tr>
<tr>
<td>1971-72</td>
<td>Paul Wayne Moser</td>
<td>East Carolina University</td>
</tr>
<tr>
<td>1972-73</td>
<td>Martha McLean</td>
<td>Queens College</td>
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<tr>
<td>1973-74</td>
<td>Jane Myers</td>
<td>Wake Forest University</td>
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<tr>
<td>1974-75</td>
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<td>Ashley Campbell</td>
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**Vice Presidents**

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<td>Edyth McCauly</td>
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<td>William Owens</td>
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<td>Charles Dickens</td>
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<td>Henry Powell</td>
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<td>Chace Collins</td>
<td>Flora MacDonald College</td>
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<td>Barbara Manning</td>
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<td>Marsha Barrow</td>
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1962-1963  James Wheatley, East Carolina University
1963-1964  Linda Heath, East Carolina University
1964-1965  Ulysses James, North Carolina A&T State University
1965-1966  Joe Stogner, Pembroke State College
1966-1967  Todd Bullock, Pembroke State College
1967-1968  Craig Barbour, Mt. Olive College
1968-1969  William Mercer, Pembroke State College
1969-1970  Margaret Renfro, Greensboro College
1970-1971  Nancy Watkins, Meredith College
1971-1972  William Bousman, Atlantic Christian College
1972-1973  Robert Coats, North Carolina State University
1973-1974  Charles Whisnant, Appalachian State
1974-1975  Cecil Ford, North Carolina A&T State University
1976-1977  Eugene Broadhead, Davidson College
1977-1978  Robert McKoy, North Carolina A&T State University
1978-1079  Frederick Weber, Davidson College
1979-1980  Kenneth Bates, Catawba College
1981-1982  Donna Hincher, Catawba College
1982-1983  Cindy Clark, Catawba College
1983-1984  David Wooton, Catawba College
1984-1985  James Ebert, East Carolina University
1985-1986  Samuel Wynne, East Carolina University
1986-1987  Lauren Ebbecke, Warren Wilson College
1989-1990  Emily Rowland, Wake Forest University
1990-1991  Kelli Sapp, Methodist College
1991-1992  Joyanta M. Robinson, Elizabeth City State University
1992-1993  Andrea Burns, Methodist College
1993-1994  Kimberly Ellis, North Carolina A&T State University
1994-1995  Amy Fisher, Lenoir-Rhyne College
1995-1996  Doug Parson, University of North Carolina at Wilmington
1996-1997  Lena Horsley, North Carolina A&T State University
1997-1998  Ray Hashemi, University of North Carolina at Charlotte
1998-1999  Kimberly Miller, Mount Olive College
1999-2000  Fara Kahn, Peace College
2000-2001  Mandy Edwards, Peace College
2001-2002  Erin Fletcher, Warren-Wilson College
2002-2003  Mike Simone, University of North Carolina at Wilmington
2003-2004  Brianne Mitchell, Bennett College
2004-2005  Sean Bloom, Catawba College
2005-2006  Amanda Moore, Catawba College
2006-2007  Beth Rice, Elon University
2007-2008  Terri Richards, Meredith College
Editor
1954-1955  William Owens, Atlantic Christian College

Secretary-Editors
1955-1956  Margaret Holland, Women’s College, UNCG
1956-1957  Rachel Haralson, Women’s College, UNCG
1957-1958  Sally Newton, Meredith College
1959-1960  Pat Rose, Woman’s College, UNCG

Secretary-Historians
1987-1988  Claudia Restrepo, Wake Forest University
1988-1989  Mamta Patel, East Carolina University
1989-1990  Jeremy Childress, East Carolina University
1990-1991  Angela Hagar, Elizabeth City State University
1991-1992  Derek J. Melton, East Carolina University
1992-1993  Gregory Johnson, Elizabeth City State University
1993-1994  Angie Harshaw, North Carolina A&T State University
1994-1995  Heather Robertson, Gardner Webb University
1995-1996  Marie Eason, Belmont Abbey College

Secretaries
1960-1961  Alice Carrin, Meredith College
1961-1962  Gerry Martin, Pfeiffer College
1962-1963  Reta Anderson, Queens College
1963-1964  Judy Thomasson, University of North Carolina at Chapel Hill
1964-1965  Jacqueline Hendrick, Univ. of North Carolina at Greensboro
1965-1966  Ruth Ann Angel, Greensboro College
1966-1967  Jean Swaim, Catawba College
1967-1968  Emily Dawson, Lenoir Community College
1968-1969  Sandra Ittenback, Methodist College
1969-1970  Linda McPhail, Methodist College
1970-1971  Ken Evans, Methodist College
1971-1972  Mary Marvin Johnson, Meredith College
1972-1973  Stephanie Standock, Methodist College
1973-1974  Wayne Landis, Wake Forest University
1974-1975  Amanda Minix, Greensboro College
1975-1976  Jackie George, North Carolina A&T State University
1976-1977  Terry Gause, Mt. Olive College
1977-1978  Catherine Cress, Wake Forest University
1978-1979  Deoborah Landy, East Carolina University
1979-1980  John Davis, Gardner Webb College
1980-1981  Mark Lane, Catawba College
1981-1982  Chris Harrell, Mt. Olive College
1982-1983  Roxanne Taylor, East Carolina University
1983-1984  Jennifer Coats, East Carolina University
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<td>Andrea Garrison</td>
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2000-2001  Alan Dupree, Mount Olive College
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2004-2005  James Colby Decker, Campbell University
2005-2006  James Smith, East Carolina University
2006-2007  James Smith, East Carolina University
2007-2008  Sara Beaver, Lenoir-Rhyne College
PART III. CONSTITUTION AND BY-LAWS

A.  Bylaws of the North Carolina Academy of Science (last updated March 2004)

Article IX. The Collegiate Academy of the North Carolina Academy of Science

Section 1. Establishment
The Academy shall sponsor the “Collegiate Academy of the North Carolina Academy of Science”, hereinafter referred to as the “Collegiate Academy.” The Collegiate Academy shall be composed of undergraduate college and university students interested in and engaged in the study of the sciences. The President of the Collegiate Academy shall be a member of the Board of Directors of the Academy.

Section 2. Organizational Relationship
The Collegiate Academy shall be a part of the Academy and shall operate within the constitution and by-laws of the Academy. Any part of the constitution and by-laws of the Collegiate Academy that is inconsistent with the constitution and by-laws of the Academy shall be null and void.

Section 3. Financial Relationship
The Collegiate Academy may solicit its own funds and may receive funds from the Academy. Money acquired by the Academy or the Collegiate Academy for programs of the Collegiate Academy shall not be used for other purposes. The Finance Committee of the Academy shall determine the means for handling funds of the Collegiate Academy. If any funds are handled directly by officers of the Collegiate Academy, an accounting for them must be made annually to the Treasurer of the Academy for tax purposes.

Section 4. Governance
The Collegiate Academy shall have its own officers and Board of Advisors, who shall determine and execute the activities of the Collegiate Academy. The Collegiate Academy shall have no programs or activities that are inconsistent with the charitable, scientific, and educational purposes of the Academy within the meaning of Section 501(c)(3) of the Internal Revenue Code or are inconsistent with the policies and goals of the Academy as prescribed by the Academy’s Board of Directors. A report of the activities of the Collegiate Academy shall be made annually by the Executive Director(s) of the Collegiate Academy to the Academy’s Board of Directors.

Section 5. Executive Director(s)
An Executive Director(s) of the Collegiate Academy shall be appointed by the Board of Directors of the Academy and shall be a
member of the Board of Directors of the Academy during the term of his/her appointment. There shall be a five-year limit on the term of the Executive Director(s), subject to annual review by the Board of Directors, with the terminal year being a transitional year for training of the incoming Executive Director(s) by the incumbent Executive Director(s). The incoming Executive Director(s) shall be nominated by the President-Elect of the Academy at the beginning of the transitional year, and the appointment must be ratified by the Board of Directors. The term of the incumbent Executive Director(s) shall end with adjournment of the annual meeting of members at the end of the transitional year. The Executive Director(s) shall keep in close contact and communication with the officers of the Collegiate Academy and consult with and advise them and the members of the Collegiate Academy in connection with the activities of the Collegiate Academy. The Executive Director(s) shall also act as Treasurer of the Collegiate Academy.

B. Constitution of the Collegiate Academy of the North Carolina Academy of Science

Article I. Name and Objective

Section 1. The name of the organization shall be the “Collegiate Academy of the North Carolina Academy of Science,” abbreviated CANCAS.

Section 2. The purpose of this organization shall be to promote interest in scientific research among undergraduate students, provide opportunity for students and faculty members of science to share and interact in scientific endeavors, and disseminate information of such scientific endeavors to all students of science.

Article II Membership, Voting and Dues

Section 1. Membership is open to any undergraduate student of science or any student undergraduate scientific organization affiliated with an accredited college or university in North Carolina.

Section 2. Membership may be of two categories: individual and group

a) Individual membership - offered to any undergraduate of an accredited college or university in North Carolina and entitles that individual to request research grants, present papers, receive awards, receive publications and notices pertinent to the Collegiate Academy, attend and vote at all meetings of the Collegiate Academy (see Section 3 for voting procedures), and hold official positions in the collegiate Academy.

b) Group membership - offered to any collection of students from a single institution that interacts together on a regular basis and
is able to identify a faculty member to act as a central contact. Examples of groups may include science clubs, undergraduates within a department, or another similar entity. The faculty contact person may be a club advisor or another individual within the department, but the contact person must be willing to facilitate communication with group members either through regular meetings, an email distribution list, or other forum. Membership entitles the group to one or more representatives at any outing, meeting or similar function of the Collegiate Academy. In addition, the group will receive all publications and notices from the Collegiate Academy and will be eligible to request speakers from the Lecture Program. All members of the group will have the same privileges as individual members (see Section 3 for voting procedures).

Section 3. Voting procedures in the Collegiate Academy will be governed as follows:

Each group or club currently affiliated is entitled to one vote per institution (e.g. three clubs from one school get one vote total) on any motion put before the Collegiate Academy if that club has a delegation of one or more members present. Persons holding an individual membership will serve collectively as an ad hoc group of members-at-large, entitled to one vote as a delegation on any motion put before the Collegiate Academy.

Section 4. Dues

The annual dues for all types of members shall be established by the Executive Committee. Dues must be paid prior to the annual Spring Meeting in order for members to be eligible to vote at the meeting.

Article III Officers

Section 1. The officers of the Collegiate Academy will include:

a. The undergraduate officers of the Collegiate Academy shall be a President, Vice-President, Secretary and Historian. The current members at the annual meeting shall elect these persons. If any officer is unable to serve his or her elected term, the Executive Committee will fill the vacancy according to its discretion. The President shall be a representative of the Board of Directors of the North Carolina Academy of Science.

b. Faculty sponsors shall be the Executive Director or Co-Directors, the Coordinator of the Lecture Program, the Chair of the Yarbrough Research Grants Committee, the Faculty Advisor at the home institution of the current President and any
Ad-hoc members. The Board of Directors of the North Carolina Academy of Science shall approve faculty sponsors.

The Executive Director shall act as Treasurer for the Collegiate Academy and will be a representative on the Board of Directors of the North Carolina Academy of Science. There shall be a five-year limit on the term of the Executive Director, with the fifth year being an official transitional period in which the outgoing Executive Director will train the incoming Executive Director. The NCAS President-elect shall nominate the incoming Executive Director at the beginning of the transitional year, and the NCAS Board of Directors must ratify his or her appointment.

When appropriate, the office of the Executive Director may be filled by two Executive Co-Directors. The appointments are nominated and ratified as for the Executive Director. The term limits for the Executive Co-Directors shall be negotiated with the Board of Directors of the North Carolina Academy of Science to allow a transitional year for an incoming Executive Director or for one incoming Co-Executive Director. As members of the Board of Directors of the North Carolina Academy of Science, Executive Co-Directors of CANCAS will share one vote.

Section 2. The Executive Committee shall consist of the duly elected officers and faculty sponsors of the Collegiate Academy. In addition, colleges having individual or group membership shall be invited to send representatives to participate in Executive Committee meetings.

Section 3. The duties of the officers shall be as follows:

a. President.

Prepares agendas, presides over business meetings, assists in the preparation of the official mailings of CANCAS, secures judges for the Club Activities Award as applicable, assists in coordination of the Fall Undergraduate Research Workshop, participates in registration at the Workshop and Annual Meeting, participates in preparation and presentation of Derieux Awards, and may assist section chairs by moderating a session at the Annual Meeting.

b. Vice-President.

Chairs meetings in the absence of the President, assumes a major responsibility in planning field trips and social activities, assists in coordination of the Fall Undergraduate Research Workshop, participates in registration at the Workshop and Annual Meeting, participates in preparation and presentation of
Derieux Awards, and may assist section chairs by moderating a session at the Annual Meeting.

c. Secretary.
Records minutes of all meetings, serves as the parliamentarian at all meetings, distributes minutes, helps to prepare the Annual Report of CANCAS activities, assists in coordination of the Fall Undergraduate Research Workshop, participates in registration at the Workshop and Annual Meeting, participates in preparation and presentation of Derieux Awards, and may assist section chairs by moderating a session at the Annual Meeting.

d. Historian.
Photographically records all activities of the Collegiate Academy, assists in coordination of the Fall Undergraduate Research Workshop, participates in registration at the Workshop and Annual Meeting, participates in preparation and presentation of Derieux Awards, and may assist section chairs by moderating a session at the Annual Meeting.

Section 4. The term of office for elected officers shall begin with the adjournment of the meeting at which they are elected, and shall expire with the presentation of the President’s gavel to the succeeding President at the Annual Meeting.

Article IV Meetings

Section 1. The Spring Meeting shall be held in conjunction with the Annual Meeting of the North Carolina Academy of Science. The Spring Meeting shall consist of oral and poster presentations, presentation of awards, a business meeting, and election of officers.

Section 2. Nomination for offices should be submitted in writing to the Executive Director at least two weeks prior to the Spring Meeting. However, nominations will be permitted from the floor in the absence of at least two nominations for an office prior to the meeting. At the meeting, each prospective candidate will be required to present his or her own qualifications orally, and may have three minutes to do so.

Section 3. A registration fee will be assessed of each person attending the Spring Meeting, the amount to be established by the Executive Committee in consultation with the board of the NCAS. Payment of the registration fee is a prerequisite for voting.

Section 4. There will be a Fall Meeting of the members-at-large each year at which the Collegiate Academy business is conducted and plans are
made for the coming year. This is usually held during the Fall Undergraduate Research Workshop.

Section 5. The Executive Committee will meet prior to the Fall Business Meeting each year. Called meetings of the Executive Committee may be scheduled upon the request of any faculty sponsor or officer of CANCAS. Field Trips may be scheduled at the discretion of the Executive Committee.

Article V Awards

Section 1. The Executive Committee will determine and regulate the criteria for judging and awarding. Current policy will be announced annually, in the annual Newsletter and in the Call for Papers.

Section 2. Since research is assumed to be one of the highest forms of intellectual activity in science, the most important function of CANCAS is to stimulate research among undergraduates. John Bewley Derieux Awards will be presented annually to the winners of the oral and poster sessions. First place winners will receive an engraved plaque and all winners will receive a certificate to commemorate this accomplishment.

Section 3. Winners of Derieux Awards will be invited to submit their award-winning research for publication in the *Journal of the North Carolina Academy of Science*. Such papers must be accepted for publication according to the peer review process and must conform to the format of the journal. The designation: “Winner of (category) John Bewley Derieux Award for Excellence in Undergraduate Research in (year)” will appear with the article. The Collegiate Academy will pay page charges for the first three printed pages in the awards categories approved by the Board of Directors of the NCAS.

Section 4. During some years, an award in the form of a commemorative trophy is given to two clubs with the best activities report: a club from an institution with fewer than 3000 enrolled undergraduates and a club from an institution with an undergraduate enrollment of over 3000.

Section 5. Suitable recognition awards may be available to any member or member club/group when and if efforts for the CANCAS are worthy of note. The selection of such awards will be at the discretion of the Executive Committee.

Article VI Publications and Mailings

Section 1. A mailing will be sent by the CANCAS president to members in the fall informing the membership of the plans for the upcoming year and will include a call for membership dues. Details
concerning the Undergraduate Research Workshop will also be mailed in the fall and may be included in the president’s mailing.

Section 2. Information will be sent out to CANCAS members detailing plans for the Spring Meeting and including the Call for Papers. This mailing will include deadline, instructions, and appropriate forms for applications for Yarborough Research Grants.

Section 3. Monthly News Notes will be sent by email to each individual on the CANCAS email list near the beginning of each month from August through May. An archive of News Notes will be maintained on the CANCAS website.

Article VII Amendments

Section 1. This constitution may be amended by two-thirds vote of those present at any regular or called meeting, subject to the provisions of Article II provided that such amendments have been submitted to the Executive Committee in writing at least two weeks prior to the meeting at which action is to be taken.

Section 2. It shall be the responsibility of the Executive Committee of officers to disseminate proposed amendments among the various individual and club members prior to the meeting for action.

Constitution amended June 1986; September 1987; May 1988; March 1997; March 1998; March 2005