



THE FILTER PRESS

Newsletter of the Georgia Section of the American Chemical Society

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2001 Herty Award Goes to Dr. Ivy Carroll

The Herty Award Committee proudly announces that the 2001 Herty Award will be presented to Dr. Ivy Carroll of Research Triangle Institute (RTI) in North Carolina in recognition of his significant contributions in organic and medicinal chemistry. The award ceremony will be held on May 21, 2000 at the Wyndham Hotel in Midtown.

Dr. Carroll is the Vice President of Chemistry and Life Sciences and Director of the Organic and Medicinal Chemistry in RTI. In his 40+ years career in chemistry, he has more than 300 publications, 25 book chapters and 30 patents.

Dr. Carroll is a native Georgian, born in Norcross, GA. He obtained his Ph.D. in Chemistry from North Carolina State University in 1961. He joined RTI after graduation as a research scientist, and rose through the ranks to become Vice President for Chemistry and Life Sciences. In addition to his responsibilities in RTI, he is Adjunct Professor at North Carolina State University. He has trained numerous postdoctoral fellows throughout his career.

Dr. Carroll is an internationally recognized medicinal chemist who has made significant contributions to many research areas. The most recognized is the development of the 3-phenyltropane class of com-

pounds as potential treatment agents for cocaine abuse. He is passionate about finding better drugs for fighting cocaine abuse. His integrated research, which includes drug design using molecular modeling, organic synthesis, biochemistry and pharmacology, has resulted in better understanding of cocaine's biochemical mechanism of action. The studies have assisted in investigations of drug action in general, particularly in the central nervous system. He discovered the most potent compounds known for the dopamine transporter binding site, he was the first to synthesize various irreversible ligands of dopamine or serotonin transporters including isothiocyanates and iodo-azido compounds. These compounds have been very useful in the biochemical characterization of the dopamine transporter. Some of these compounds have potential for treatment of depression.

Dr. Carroll has won numerous awards including the prestigious 2000 Southern Chemist Award. He was selected as a 2000 Fellow to the American Association of Pharmaceutical Scientists (AAPS) in recognition of his research in pharmaceutical research.

Dr. Carroll will give a seminar on his life-long achievements at the Herty Award Dinner on May 21, 2001. (See inside for details.)

Monday, May 21st, 2001 at the Wyndham Hotel, Midtown



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Postmaster: Send address changes to Brian Fowler, 3466 Irwin Bridge Rd., Conyers, GA 30012

Charles Holmes Herty

Charles Holmes Herty was a celebrated, patriotic chemist whose motto was “For Science and Country”. He was born in Milledgeville, Georgia on December 4, 1867. Although orphaned at the age of eleven, Herty went to college at the University of Georgia, where he earned a B.A. degree and was the “First Honor Man” of the class of 1886. Herty attended Johns Hopkins University and received his Ph.D. in 1890. He studied with Ira Remsen, the eminent physical chemist. Herty’s thesis dealt with complex ions of the Werner type.

Herty returned to the University of Georgia in 1891 as an instructor in chemistry and as the South’s first football coach. He married Sophie Schaller in 1895, and they had three children. In 1899, Herty left Georgia to study in Europe; he worked under Witt and Kerner in Berlin, and under Werner in Zurich.

Upon returning to the United States, Herty joined the U.S. Forestry Service. His work was directed toward saving the pine forests in the Southeast. The naval stores industry had been systematically killing the forests in their efforts to collect tree resin using a trough which was backed into the tree wood. Herty developed a method to collect the resin in a metal cup, sparing the tree’s life; the method was used by the Forestry Service for seventy-five years. Herty’s patent of the method enabled him to be financially secure for the rest of his life.

In 1905, Herty joined the faculty of the University of North Carolina at Chapel Hill as Chairman of the Chemistry Department and Smith Professor. He was also appointed Director of Athletics. His research interests centered around natural products which had commercial promise, such as turpentine, soaps, leathers, and cottonseed oil.

In 1917, he resigned from the University of North Carolina to become the first full-time editor for the

journal of Industrial and Engineering Chemistry that eventually became today’s Chemical & Engineering News. He was a key organizer and first President of the Synthetic Organic Chemical Manufacturers Association, a major player in the 12-year effort to align chemistry and medicine and establish NIH in 1930. He also played a key role in national defense during World War I. He single-handedly saved the southern pine forests from certain extinction at the hands of the naval stores industry by inventing a simple cup-and-gutter system for collecting resin without killing the trees. Always stressing forest resource management, his demonstration of the use of the easily renewable southern pine tree in paper-making played a large role in slowing the decimation of the great North American hardwood forests. He was a tireless advocate for chemical education of the general public, increased support for basic research, the application of chemistry to solving problems in medicine and society, and for chemists working with state and federal legislators. Herty used his position as editor to write political editorials furthering the advancement of chemistry in the United States. His two main concerns were the formation of the Chemical Warfare Service and the ability of the United States to manufacture quality chemical products which had previously been purchased from Germany.

From 1921 to 1927, Herty served as President of the Synthetic Chemical Manufacturers Association, an organization that he helped to establish. He also collaborated with Francis P. Garvan on the alignment of chemistry and medicine which resulted in the start of the National Institutes of Health.

Herty became a private consultant to the chemical industry in 1928. His research focused on the conversion of pine pulp to newsprint. He formed the Savannah Paper and Pulp Laboratory in Savan-

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nah, Georgia with a \$50,000 grant from the Chemical Foundation and a \$20,000 per year grant from the State of Georgia. By 1933, the plant had developed a feasible process for pulp conversion. On March 31, 1933, the first newspaper was printed using paper created with the Herty process.

Charles Holmes Herty made numerous contributions to chemistry in the development of new products and the advancement of new ideas. The Georgia Section of the American Chemical Society pays tribute to this ingenious man each year by awarding a chemist from the Southeastern United States with the prestigious Herty Medal.

The Charles Herty biography was compiled from articles written by: Donald G. Hicks, SERNIACS Meeting, 1976
Marion T. Clark, The Filter Press, 1977, and M. M. Bursey, The Hexagon, 1983.

Development of Pharmacotherapies for Cocaine and Heroin Abuse

***Dr. Ivy Carroll
Vice President of Chemistry and
Life Sciences
Research Triangle Institute, NC***

Cocaine and heroin abuses are major health problems. Medications for treating patients addicted to both compounds are needed. The design, synthesis, and development of pharmacotherapies for treatment of cocaine and heroin abuse will be presented. Other related studies such as the development of single photon emission computed tomography (SPECT) ligands will also be presented.

The Herty Medal

The Charles H, Herty Medal is a beautiful solid gold medallion awarded annually by members of the Georgia Section of the American Chemical Society. The purpose of the award is to give public recognition to the work and service of outstanding chemists who have significantly contributed to their chosen fields. All chemists in academic, government, or industrial laboratories in the southeastern United States (Virginia, West Virginia, Kentucky, Tennessee, Mississippi, Louisiana, Alabama, Georgia, Florida, North Carolina, and South Carolina) are eligible.

Advertise employment positions (temporary or permanent), goods, services, etc. in the Filter Press! Prices for advertisements per issue are:

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Monday, May 21st, at **Wyndham Midtown Hotel**

Herty Award Dinner

Dr. Ivy Carroll

*Vice President of Chemistry and Life Sciences
Research Triangle Institute, NC*

Date: Monday, May 21, 2001

Time: 6:30 - 7:00 p.m. arrive & social
7:00 - 8:00 p.m. dinner
8:00 - 9:00 p.m. Herty Award Speaker

Dinner: Chicken Dijonnaise, Sautéed Breast of Chicken with White Wine and Dijon Mustard Sauce, Rice Pilaf and Fresh Seasonal Vegetables

or Grilled Salmon Jardiniere, Six Ounce Salmon Fillet with Whole Grain Mustard Sauce Over a Bed of Seasonal Vegetables

or Seared Pork Medallions With Caramelized Bourbon Apples And Garlic Cheese Grits

All dinners include: Fresh Garden Salad with Choice of Dressing, Rolls and Butter, Cheesecake with Chocolate or Raspberry Sauce, Iced Tea, Water, and Coffee

Location: Wyndham Midtown Atlanta
125 10th Street, NE
Atlanta, GA
404-873-4800

Directions: Exit I-75/I-85 connector at the Techwood/10th/14th exit, go east on 10th street to Peachtree, go through the light at Peachtree and it is on your immediate right.

Cost: \$25 per person, full-time students with ID and high school teachers, \$15. Payment should be made to the **ACS Georgia Section** and will be collected at the door.

RSVP: **RSVP:** Brian Fowler, 770-602-4222, <bstar1@bellsouth.net>
When making reservations, please state your name, student status (if applicable), and telephone number.
Reservation deadline is 5:00 PM on Wednesday, May 16th, ABSOLUTELY NO EXCEPTIONS!!!
Note: if you make a dinner reservation but fail to attend, you must still make payment for your meal to treasurer Angus Wilkinson, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0400, (404) 894-4036.



**2000-01
Georgia
Section
Meetings:**

September 12, 2001
The Chemistry of Wine
Ernie Simpson

October 23, 2001
Chemistry and Art:
Moles and Music
Staci Lloyd, Cartersville
Science Center, and the
Armonico String Ensemble

November 14, 2001
Chemistry in the Sherlock
Holmes Stories
James O'Brien

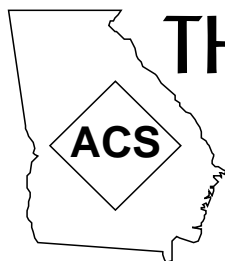


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