



THE FILTER PRESS

Newsletter of the Georgia Section of the American Chemical Society

Volume 10, Number 7

October, 2000

A Funny Thing Happened on the Way To the Analytical Lab

Ben Luberoff, Ph.D., P.E. (ret.)

As business success has become ever more dependent on information management, it's become ever more apparent that everything important to a firm eventually finds its way into the Analytical Lab. So how come it don't get no respect?

Sadly, instead of the respect due a fellow team-member, there's a great tendency to slay the messenger just because he/she brings bad (read "surprising") news about a key sample.

Origins of surprises, taken from my own experience, will be related with the objective of avoiding them.

Since it will be shown that many surprises are related to poor coupling between the analytical professional and the client, this lecture will have a good deal to teach clients, those who rely on others to generate their data.

On behalf of all analytical chemists, (who already know all about this information decoupling), I would like to invite all their clients to attend.

Dr. Ben Luberoff's ConcepTeam provides clients with knowledge services. His most visible work was CHEMTECH, which he served as Editor from its inception in 1970 until his 1992 retirement. His column, "The Industrial Chymist", appears in The American Chemical Society's magazine, Chemical Innovation, (formerly CHEMTECH) and another monthly column, "Perkin" in Chemistry & Industry (London).

During his 50-year career Ben managed R & D activities at The Lummus Co., Stauffer Chemical Co. and American Cyanamid and headed technical continuing education at Rutgers University. His publications encompass process design, catalysis, analysis and the management of innovation. The Cooper Union granted him a baccalaureate in chemical engineering in 1949 and Columbia University awarded his Ph.D. in Chemistry in 1955. He taught at both institutions. His Professional Engineering license was granted by New Jersey. Dr. Luberoff served as Chair of the North Jersey Section of the American Chemical Society during its centennial year, 1976, served on its council for many years and was a candidate for its presidency in 1992. He has also served on the patent committee and is a career counselor.

Wednesday, October 4th, at Wyndham MidtownTech



Georgia Section Officers and Board

CHAIR:
Terry Say
Vinings Industries
(770) 514-6003
terraysay@aol.com

CHAIR-ELECT:
Katherine Seley
Georgia Institute of Technology
(404)-894-4013
katherine.seley@chemistry.gatech.edu

PAST-CHAIR
Rigoberto Hernandez
Georgia Institute of Technology
(404) 894-0594
hernandez@chemistry.gatech.edu

SECRETARY:
Lucian A. Lucia
*Institute of Paper Science and
Technology*
Georgia Institute of Technology
(404) 894-9712
lucian.lucia@ipst.gatech.edu

TREASURER:
Angus Wilkinson
Georgia Institute of Technology
(404)-894-4036

MEMBERS-AT-LARGE:
Emelita Breyer
Emory University

Joyce Scanlon
Fiber Visions

COUNCILORS:
Lihong D'Angelo
The Coca-Cola Company

Lissa Dulany
UCB Chemicals Corp.

Don Hicks
Georgia State University

Bill McGonigal

ALTERNATE COUNCILORS:
Theresa Chamblee
The Coca-Cola Company

David Collard
Georgia Institute of Technology

Susan Hornbuckle
Clayton State College

Tom Netzel
Georgia State University

Local Section Career Coordinator:
Brian Fowler
bf@elitesearch.com



Atlantic Microlab, Inc.

ELEMENTAL MICROANALYSIS OF
ORGANIC COMPOUNDS

PHONE: 770-242-0082
FAX: 770-242-0236
EMAIL: INFO@ATLANTICMICROLAB.COM
WEB: WWW.ATLANTICMICROLAB.COM

6180 ATLANTIC BOULEVARD
SUITE M
NORCROSS, GEORGIA 30071

Corporate Information Resources, Inc.

We Expand Your Time and Your IdeasSM

RESEARCH: Comprehensive searches, including
literature, patents and competitive intelligence

CONSULTATION: Information needs
analysis and systems implementation

Deanna Morrow Hall - *President*

3223 Kelley Chapel Road • Decatur, Georgia 30034-5343
Phone/Fax: 404-713-0191 • e-mail: dmhall@mindspring.com

THE FILTER PRESS

Newsletter of the Georgia Section of the American Chemical Society

The Filter Press (ISSN 1053-5721) is published monthly (except June, July, August, and December) by the Georgia Section of the American Chemical Society. Periodicals Postage Paid Atlanta GA.

Advertising and Business: Direct advertising copy and inquiries to Brian Fowler, Elite Search, 100 Crescent Centre Parkway, Suite 360, Tucker, GA 30084, bf@elitesearch.com, 800-849-5502

Graphics Design, Submission of materials for publication: Direct materials for publication to Alan Gabrielli, Southern Polytechnic State University, 1100 South Marietta Parkway, Marietta, GA 30060-2896, fax to (770) 528-7490, or email to agabriel@spsu.edu
Address Changes: ACS members should send address changes to ACS Membership Services, 1155 Sixteenth Street NW, Washington, DC 20036 or call 1-800-227-5558.

Postmaster: Send address changes to Brian Fowler, Elite Search, 100 Crescent Centre Parkway, Suite 360, Tucker, GA 30084

Wednesday, October 4th, at Wyndham Midtown

A Funny Thing Happened on the Way to the Analytical Lab Ben Luberoff, Ph.D.

Date: Wednesday, October 4th, 2000

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

Dinner: Choice of:
Sourdough and Lemon-Pepper Crusted Co, Rice Pilaf, Fresh
Market Vegetables, Rolls Or
Baked chicken with Herbs Provencale, Garlic-roasted Red Bliss
potatoes, Fresh Market Vegetables

Location: Wyndham Midtown
10th and Peachtree
Atlanta, GA

(NOTE: we're not at the usual location this month!)

Directions: Exit 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. There is a parking deck available.

Cost: \$16 per person, full-time students with ID and high school
teachers, \$8. Payment should be made to the ACS Georgia
Section and will be collected at the door.

Atlantic Microlabs, Inc. has graciously sponsored this meet-
ing, which enabled us to maintain a low price for the stu-
dents' dinners.

RSVP: Katherine L. Seley, 404-894-4013,
<katherine.seley@chemistry.gatech.edu>
When making reservations, please state your name, professional
affiliation, telephone number and dinner choice. NOTE:
Reservation deadline is 5:00 PM on the Wednesday preceding
the meeting. 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) 894-7452.



2000 Georgia Section Meetings:

November 6th, 2000
Chemistry Profession
Dr. Cecil Dybowski

December, 2000
no meeting

January, 2001
TBA

February, 2001
Boron: Its Not Just for Rocket
Fuel Anymore
Thomas Holme

March, 2001
Is It Chemistry or Magic? An
Insider Look at a Chemical
Demonstration Road Show
James Webb & Otis
Rothenberger

April, 2001
TBA

May, 2001
Herty Award dinner

September, 2001
The Chemistry of Wine
Ernie Simpso

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

Is Science Funding Unbalanced?

The answer to a value laden question such as the one above usually is a strong function of a person's stake in the matter. Put another way the apparent gravity of a situation many times depends on whose ox gets gored. Neal Lane, Director of the White House Office of Science & Technology Policy (OSTP), recently said, "Congress has currently stalled our progress toward our shared national goals and toward balance in a healthy R&D portfolio precisely at the moment in history when we can best afford to invest in America's future." Below is a list of FY2000 enacted agency R&D budgets. At this time many FY2001 budgets are still pending congressional action.

National Institutes of Health	\$17.813 billion
Department of Defense, Basic Research	\$1.161 billion
Nation Science Foundation	\$3.897 billion
Department of Energy, Office of Science	\$2.815 billion
National Institutes of Standards and Technology	\$0.630 billion
Department of Agriculture, Research Service	\$0.830 billion
Environmental Protection Agency, Science & Technology	\$0.645 billion

Arthur Bienenstock, OSTP Associate Director, notes that NIH budget leaps have taken monies sorely needed from the physical sciences and engineering as well as from the social sciences and even basic research in biology that is not directly associated with biomedical investigations. He says, "Everything will suffer if we don't get other fields up."

Against this background it is of interest to compare ongoing legislative activity concerning the NIH and DOE, Office of Science budgets. For FY 2001 the House passed a 5.6% increase for NIH to \$18.813 billion, while the Senate is about to vote on a 15% increase to \$20.513 billion. A conference committee will settle any differences.

For the DOE, Office of Science budget on the other hand the following is occurring. The administration proposed increasing the budget of DOE's Office of Science by \$336 million (12%) to \$3.1 billion. On June 28, the House passed its Energy and Water Appropriations bill, which included an increase of only \$15 million (0.5%) for the Office of Science (\$321 million less than the administration's request). Meanwhile, the Senate Appropriations Committee approved a \$105 million increase (3.7%) for the Office of Science (\$231 million less than the administration's request). The Senate is expected to vote on this bill during the first week in Septem-

ber. As above, House and Senate negotiators will resolve funding differences. Bottom line, the NIH budget battle is over increases of 5.6-15% (\$1 billion to \$2.7 billion), while the DOE, Office of Science battle is over increases of 0.5-3.7% (\$0.015 billion to \$0.105 billion).

The ACS POSITION on the DOE, Office of Science Budget. ACS supports the 12% increase requested for the DOE, Office of Science. Through the Office of Science, DOE is the nation's largest supporter of research in the physical sciences and the largest supporter of major scientific user facilities. The Office of Science plays a central federal role in supporting long-term, peer-reviewed basic research across all scientific disciplines, both in universities and in national laboratories, in strengthening our knowledge base, and in training of the next generation of scientists and engineers.

YOUR CHOICE: WRITE TO CONGRESS OR DO NOTHING. Unless it crops up in their constituent mail, your legislators will tend to overlook the importance of federal support for non-biomedical, chemistry related research. U.S. Senator Jeff Bingaman (D-NM) and House Representative Judy Biggert (R-IL) in parallel efforts are trying to secure the 12% budget increase for the DOE, Office of Science. Senator Bingaman and Representative Biggert are circulating a "dear colleague letter" that emphasizes the Office of Science's central role in a balanced research portfolio. By signing onto this letter, your members of Congress will demonstrate national support for the physical sciences. The more members who sign the letter, the greater the impact will be. Please write to your House Representative and two U.S. Senators now.

-Tom Netzel

Analytical Consulting
Automation/Networking

GC/MS/DS & UPS
Service & Support



**SPURLOCK
SERVICES**

1795 Overlook Trail
Acworth, GA 30101

Gary Spurlock
(770) 917-1732

Email: spurlockservices@mindspring.com
www.mindspring.com/~spurlockservices

Councilor's report for the ACS national meeting, Washington, DC; August 19-23, 2000
Lissa Dulany, Georgia Section

As a councilor for the Georgia section, I am a member of two national ACS committees, the Women Chemists Committee (WCC) and the Divisional Activities Committee (DAC). One does not have to be a councilor to be a member of the WCC, but does to be a member of DAC. The WCC is charged with attracting, encouraging and promoting women as chemists and as members of the ACS, through travel awards for students, the WCC newsletter and webpage, and two awards, among many other activities. The DAC is charged with policy decisions regarding the creation and dissolution of divisions, and acting as a liaison and coordinator between the divisions and the ACS. These committees meet on Saturday and Sunday during national meetings.

At DAC, a report was given by the ACS Focused Programming Office (ProSpectives), which has been charged by the Board of Directors to develop focused programming to compete with (so-called) boutique associations/societies. These groups, often for profit, produce symposia and seminars that are seen as a potential threat to the technical programming of the ACS. The first ProSpectives offering, Combinatorial Chemistry, attracted 200+ "youngish", mostly industrial attendees, and was not seen to directly compete with any ACS division programming as it focused on the applied aspects of the topic. Other future endeavors include: Proteomics: its impact on drug discovery and disease (April, 2001) and Biological Applications of Nanotechnology (June, 2001). These will continue.

As chair of the Divisional Enhancement (DE) Subcommittee of DAC, I facilitated the selection of Divisions for recognition at the Chemluminary Celebration on Tuesday, August 22nd. Six divisions were chosen for recognition of either innovation or outstanding service to members on the basis on their annual reports. (See Tuesday's section below for those recognized.)

The DE Subcommittee also allocated \$20K of grant money to special division projects, and the selection was made during this meeting. Seven projects were chosen for partial funding:

AGFD: \$4K. With a goal to attract and retain younger chemists as Division members, this proposal would partially fund travel awards for the Graduate Candidate Symposium, and help support a current award for a young scientist and help initiate a corporate young scientist award.

CELL: \$2K. In the last several years, this division has begun a process of re-focus and alignment, such that they propose to change the division name to Cellulose and Biopolymer Materials Division. This has included joint programming with POLY and other divisions, and the creation of a new Gordon Conference on the Chemistry of Polysaccharides. The subcommittee was supportive of this re-focus for the division, and could provide seed money for this activity and its associated programming plans.

GEOC: \$2K. Support was provided as seed money for the establishment of a biennial GEO Division Medal (which would recognize a division member). Support existed for getting the award (medallion design and initial costs), but not for sustaining this award.

INOR: \$4K. Support was provided for graduate and undergraduate student travel awards for presentation of papers/posters at ACS national meetings.

ORG: \$1.5K (all that was requested). Support was provided for a symposium in San Diego that would feature synthetic organic chemists (academic & industrial) who are women.

POLY: \$3.5K. Support was provided for this innovative program where K-12 Polymer Ambassadors are provided with training and materials to enable them to become teachers teaching teachers, an ongoing project w/ PMSE, RUBB.

TECH: \$3K. Support was provided to assist with their marketing strategy to attract more Chemical Technicians, including outreach beyond the typical. Again, funding was provided as seed money the development of a promotional booth, but sustaining the shipping costs of a traveling booth for local, regional, and extra-ACS meetings would have to be identified elsewhere.

These grants could not be announced at the Chemluminary Celebration (due to tight scripting), but the recipients have since been notified.

The WCC also meets on Saturdays (all day), so I was able to join them at noon for the remainder of the day. The highlights of this meeting include: a discussion of upcoming articles for the WCC newsletter, the announcement of the student travel award winners (who are recognized at the WCC luncheon; recently an Emory student received one of these grants), and the announcement of the Overcoming Challenges award winner (recipient must be enrolled in a 2 or 4 year undergraduate program).

On Sunday, August 20th, lunch occurred in conjunction with a Division Chairs liaison/communication opportunity. Several of the topics included: the use of computer projection equipment for presentations at national meetings, internet balloting, on-line preprints, and on-line abstract submission.

The DAC committee meeting resumed at 1:30. A presentation was given on the Presidential task force on Local Section vs. Division allocation as regards to councilors. The discussion continues, with a meeting scheduled just after the ACS Council meeting on Wednesday, August 23rd.

Bob Bovenschulte, Director of ACS Publications, gave a presentation on ACS books and publications. ACS symposium series are now produced in conjunction with Oxford University Press, with a 40% discount to sponsoring division members, and a 25% discount to all ACS members. By this method, the ACS still continues to publish 30-35 books/year, unfortunately with a continued erosion in sales (average sales is 350 copies, and a decline in "standing orders"). This may be due to the delayed timeframe for publication, which doesn't occur until 12-24 months of the symposium. There is discussion about "print-on-demand" books, CD's, etc. balance this financially.

POLY now offers preprints on line; ENVI now offers preprints on CD-ROM. Individual owns the copyright on the individual

preprint, while the division owns the copyright on the document as a whole.

A series of recommendations were drawn up concerning divisions affiliating with other technical organizations.

In between Sunday night and Tuesday night, my job intervened, so I returned to Atlanta.

On Tuesday evening, August 22nd at the Chemluminary Celebration, as chair of the Divisional Enhancement Subcommittee of DAC, I announced the Divisions who were recognized for innovation or outstanding service to their members. These were:

The Division of Chemistry and the Law, who teamed up with the Santa Clara Valley local section to hold an "inventors make a difference day" Held at the Intel Museum, this event promoted invention, innovation and patents to students, parents, scientists, engineers and inventors, with a concerted outreach to minority elementary and middle school students.

The Division of Education, who sponsor a series of free online conferences and increased programming at regional meetings that has resulted in both increased membership and member involvement.

The Division of Environmental Chemistry, who have developed an aggressive program for attracting and retaining younger members by placing them in leadership roles within the division.

The Division of Inorganic Chemistry, who has pioneered electronic balloting for its annual elections, teaming with many ACS units to ensure eligibility, security and accuracy for its members and for the election results.

The Division of Organic Chemistry, who has raised funds for 18 graduate student fellowships (at \$18,500 each) from industrial sponsors. In addition, the division maintains an organic chemistry employment opportunities web site for its members.

The Division of Polymer Chemistry, who conducted a 2000 campaign to attract 2000 new ACS members, and achieved this by the August national meeting. They are also the first division to use electronic preprints in partnership with the ACS publications division. They strive to include industrial content and involvement in their programming.

On Wednesday, August 23rd, I participated in the ACS Council meeting as a councilor from the Georgia Section. New council members were elected to the Committee on Committees (ConC: Ronald Archer, Joe Hightower, Dorothy Philips, Barbara Sawrey and Isiah Warner - a former Herty Award winner), Council Policy Committee (CPC: Bonnie Charpentier, Ann Hunt, Charles Rowell, and Kathleen Trahanovsky), and Committee on Nominations and Elections (N&E: Jeannette Brown, Richard Deming, Thomas Gilbert, Barbara Peterson and David Wohlers).

All local section members are reminded to vote in the ACS National Elections this fall. The nominees for President-Elect are Glenn Crosby and Eli Pearce, both outstanding candidates.

Local section members are encouraged to participate in the Legislative Action Network email system, where responses are directly sent

to Congress regarding issues of interest to chemists and scientists.

The ACS has a 94% member retention rate, which is outstanding among professional societies. Recently the concern has been retaining younger and new members, and from what I understand, the concerted effort to involve members more quickly in the society is resulting in success among these groups, too.

The ACS is exploring a cooperative relationship with the American Chemistry Council (the former Chemical Manufacturers Association). In addition, the ACS has joined forces with the Green Chemistry Association.

At the council meeting, one petition was placed on the agenda for urgent action: to increase the size of standing committees of the council. This intent of this action would be to create more opportunities for councilors to serve on ACS committees. The petition of urgent action was denied, and the petition itself will be voted on at the council meeting in San Diego. At various meetings that I attended, the sentiment was there for increased committee size, but not without some opportunities for the committees to plan for this expansion. Changing a committee size from 6-15 to 12-24 members could make for a very unwieldy situation without planning and foresight.

Electronic voting services are being investigated for national ACS elections.

The Georgia section now resides in the ACS 4th District for voting purposes, and not the 4th Region. For regional programming and meetings, we are still in the Southeast Region. nomenclature

Dues will not increase in 2001, but will remain at the 2000 level of \$108. This was voted on and approved at the last council meeting, and the board concurred.

The online housing capability for this national meeting was a big success. Look for online meeting registration for the San Diego meeting in Spring, 2001.

There was a HUGE discussion about the other Petition for action: meeting registration categories. This proposal was recommitted to the Meetings & Expositions Committee to all for the reciprocal agreements with other technical societies that are being put in place.

60% of the ACS is less than 50 years old, while (of course) 40% is more than 50 years old. Most recently, the group of members aged 21-25 increased by 69%, which is great!

The Fertilizer and Soil Chemistry Division will dissolve 12/31/2000, and be re-located and re-organized as a subdivision of the Agrochemicals Division.

The Committee on Economic and Professional Affairs has developed an online chemistry salary comparison system available through the ACS website.

If you're looking for fun ideas to promote chemistry in the local section, look to acs.org/local sections for the most recent "top activities" mentioned in LS annual reports.

The ACS participates in the nomination process for the National Medals of Science.

The US Senate is to take action in September on the diversion of 25% of US Patent Office user fees to other government offices!!! Let your elected officials know how shortsighted this is.

Helen and Alfred (post-humously) Free will be inducted into the National Inventors Hall of Fame on September 9, 2000 for their invention of the Diabetes Glucose Test Strips.

On a personal note, I would like to encourage all ACS members to get involved with a technical division. Before I became a member of DAC, I didn't realize how important this was (though I already was a division member, POLY and PMSE). Divisions are charged with developing all the technical programming at national meetings. So the next time you ask, "why doesn't the ACS offer a symposium or session focused on _____" whatever topic of interest of you, realize that YOU are the ACS, and figure out which division would be the most logical place for such a topic, and then suggest it. Or better yet, volunteer to help plan it!! It's not that difficult, and you'll meet great people and make great professional connections.

That's all for this meeting's report.

Respectfully submitted,
Dr. Lissa Dulany (Margaret A. Dulany)
Councilor, Georgia Section
September 5, 2000

Possible Town Meeting for GA ACS

Recently Brian J. Dougherty, Manager in the ACS Government Relations Division, wrote to me regarding the possibility of holding a science town meeting in Atlanta (with either Senator Zell Miller or Senator Max Cleland or both). Good times for the meeting would be either during the February congressional break (February 19-23, 2001) or during the congressional spring recess (April 16-20, 2001). The goal of the meeting would be to have the senators discuss the outlook for federal research funding, their views on the federal role in strengthening research and education, and the need for scientists to get more involved in the policy debates on these issues. Members of the audience would then be encouraged to ask questions of the meeting participants.

If you would like to become involved in organizing such a town meeting, publicizing the meeting, participating in the discussion and presentations, preparing background information, or assisting the meeting participants, please email me at tnetzel@gsu.edu or phone me at 404-651-3129.

-Tom Netzel

Job Opportunities at The Coca-Cola Company

The Coca-Cola Company has the following career opportunities at the corporate offices in Atlanta.

Organic Chemists:

The candidates of interest will have a PhD degree, or a MS degree with 3-5 years experience or a BS Degree with 5-10 years experience in organic chemistry and expertise in mechanistic organic chemistry, natural product chemistry, synthetic organic chemistry and use of instrumentation to study organic reactions. Qualified candidates are expected to have 0-10 years of experience in industry using their expertise in organic chemistry to solve practical problems. A sound background in organic chemistry as well as good understanding of analytical, inorganic, physical and macromolecular (polysaccharide) chemistry are desired. In addition, the capability to collaborate across functions is important.

Physical Organic Chemists:

Candidates of interest will have a PhD degree, or a MS degree with 3-5 years experience or a BS Degree with 5-10 years experience in physical or physical organic chemistry and expertise in the study of solutions and gases. Qualified candidates are expected to have 0-10 years of experience in industry using their expertise to solve practical problems. Sound backgrounds in organic, physical and inorganic chemistry as well as good skills in analytical chemistry are desired. In addition, a sound background in the use of statistics for design of experiments and interpretation of results and the capability to collaborate across functions with food scientists and other technical personnel is important.

The Coca-Cola Company offers a competitive salary, excellent benefits, and an opportunity to work in an exciting interdisciplinary team environment. All candidates must be permanent residents or US citizens. Minority applicants are encouraged to apply. For consideration, please send, e-mail, or fax your resume indicating position of interest to Attn: K. Elliott, The Coca-Cola Company, PO Box 1734, Atlanta, GA 30301; fax: (404)676-8214; e-mail: careers@na.ko.com. Please reference ADCRD in subject field of e-mail and faxes. EOE

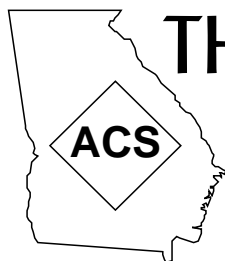


kforce.com Scientific, formerly Romac Scientific, is the premier provider of mid-to-high level SCIENTIFIC PROFESSIONALS for contract and permanent positions in a variety of industries, nationally as well as in the Atlanta area!

kforce Scientific is committed to providing the highest quality candidates seeking unlimited opportunity and unparalleled company values. A career with kforce.com promises challenge, diversity, achievement, growth and momentum!

OPPORTUNITY HAS A NEW ADDRESS!
kforce.com

To speak with a local kforce Scientific Consultant,
Call Renee Cummings at (770) 351-4924
or E-mail rcummings@kforce.com
kforce.com is proud to be an Equal Opportunity Employer



THE FILTER PRESS

Newsletter of the Georgia Section of the
American Chemical Society

<http://chemistry.gsu.edu/ACS>

Periodicals Postage
PAID
Atlanta, GA
Publication No. 571-180

POSTMASTER: send address changes to

THE FILTER PRESS
Brian Fowler
Elite Search
100 Crescent Centre Parkway
Suite 360
Tucker, GA 30084