

Thank you...

to the Albemarle Corporation
&
to the speakers for giving their
time to be with us.

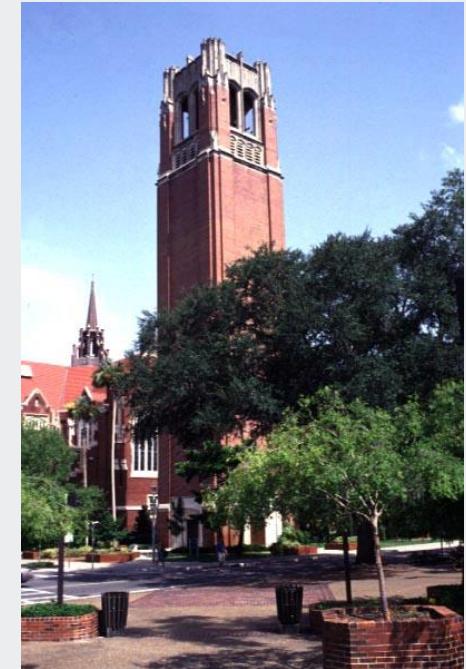


George and Josephine Butler Polymer Research Laboratory – Department of Chemistry University of Florida

(A History Lesson)

Teaching and Building a Polymer Laboratory at The University of Florida

1946 - 2016



Century Tower at
University of Florida



George and Josephine Butler Polymer Research Laboratory – Department of Chemistry University of Florida



The Start of the Butler Polymer Research Laboratory circa 1946.

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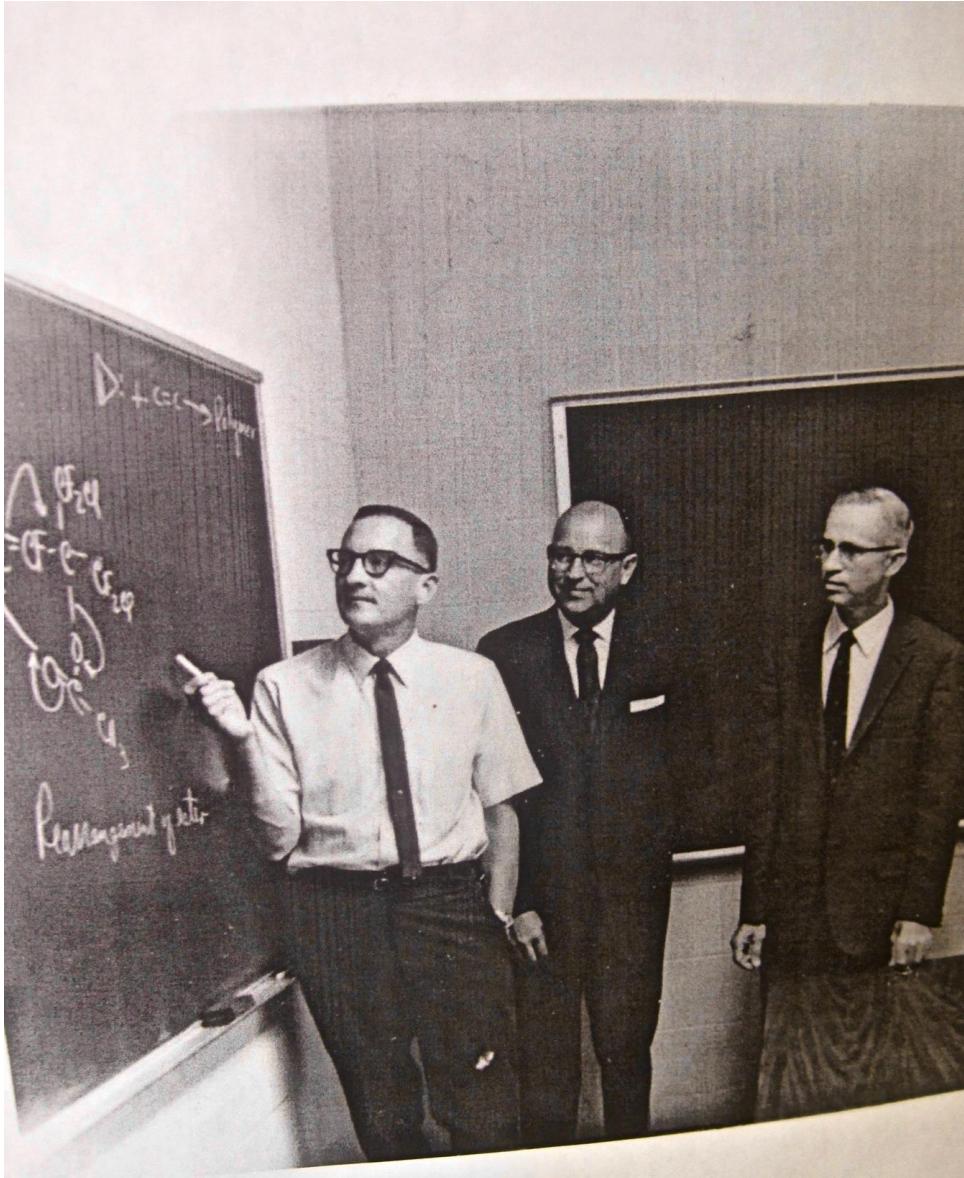




Wooden addition to Leigh Hall circa late 1940s.

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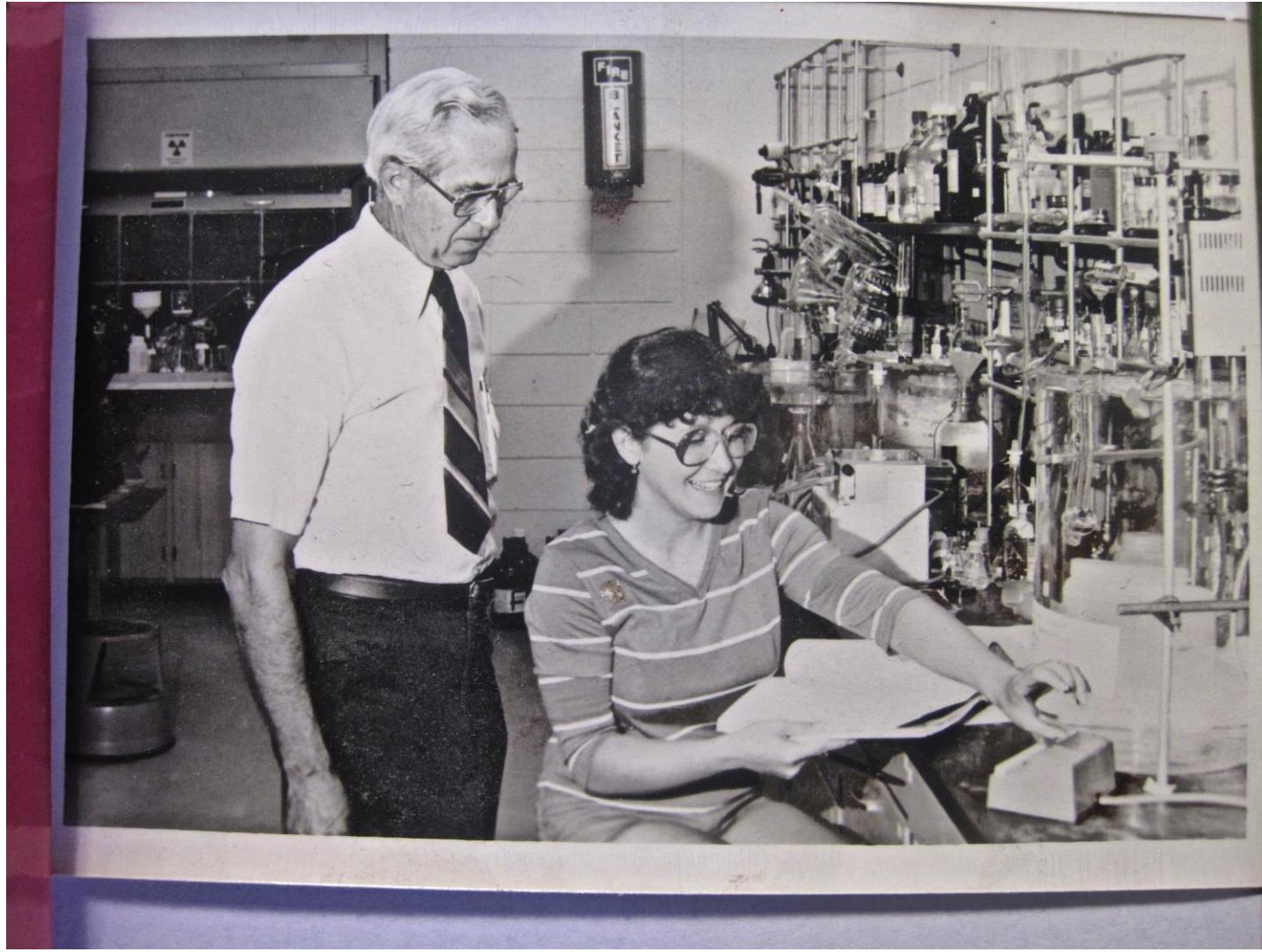




Dress was somewhat different in those days.

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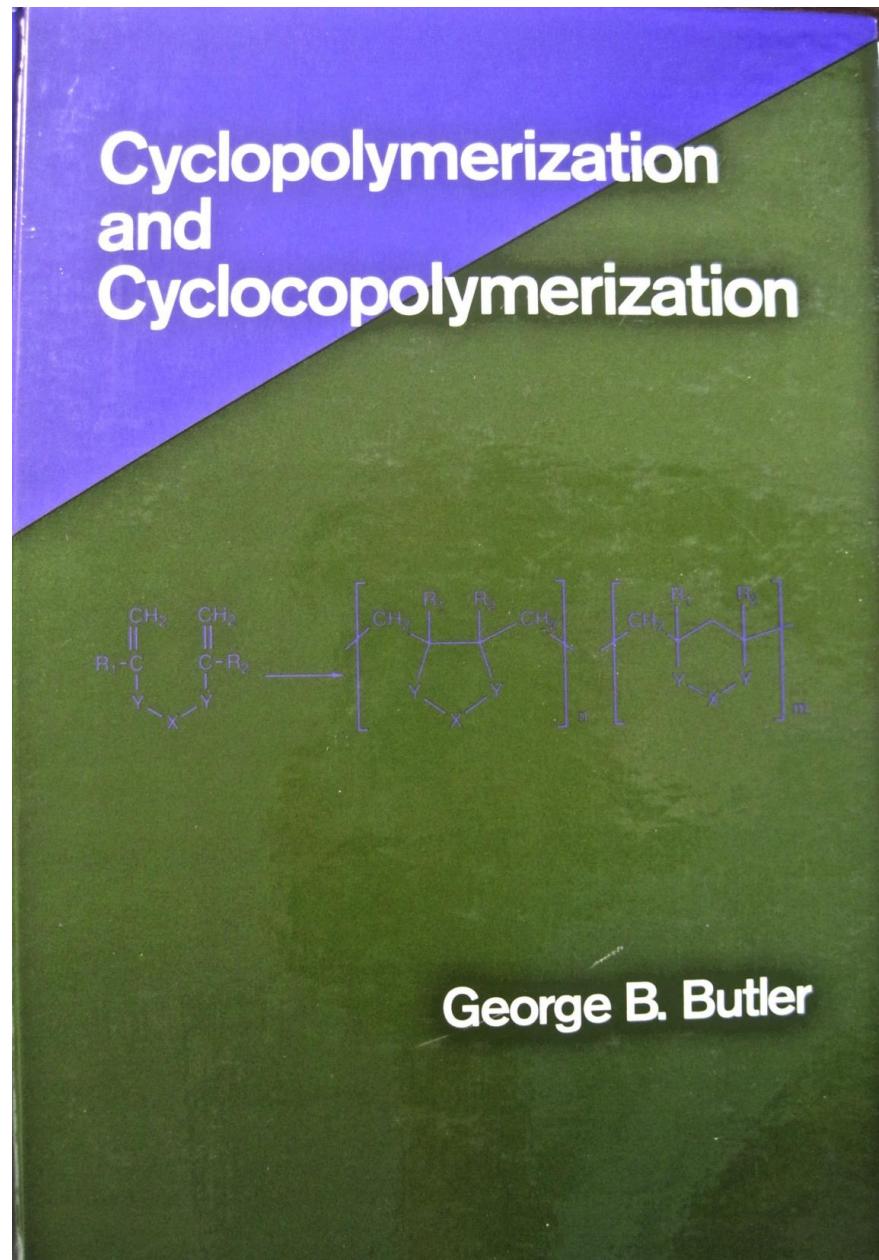


Professor Butler – Cyclopolymerization – he kept polymers alive in the Dept. from 1946 to 1970 by himself.

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Professor Butler's
Discovery. Ultimately
led to the
George & Josephine Butler
Polymer Research Laboratory.



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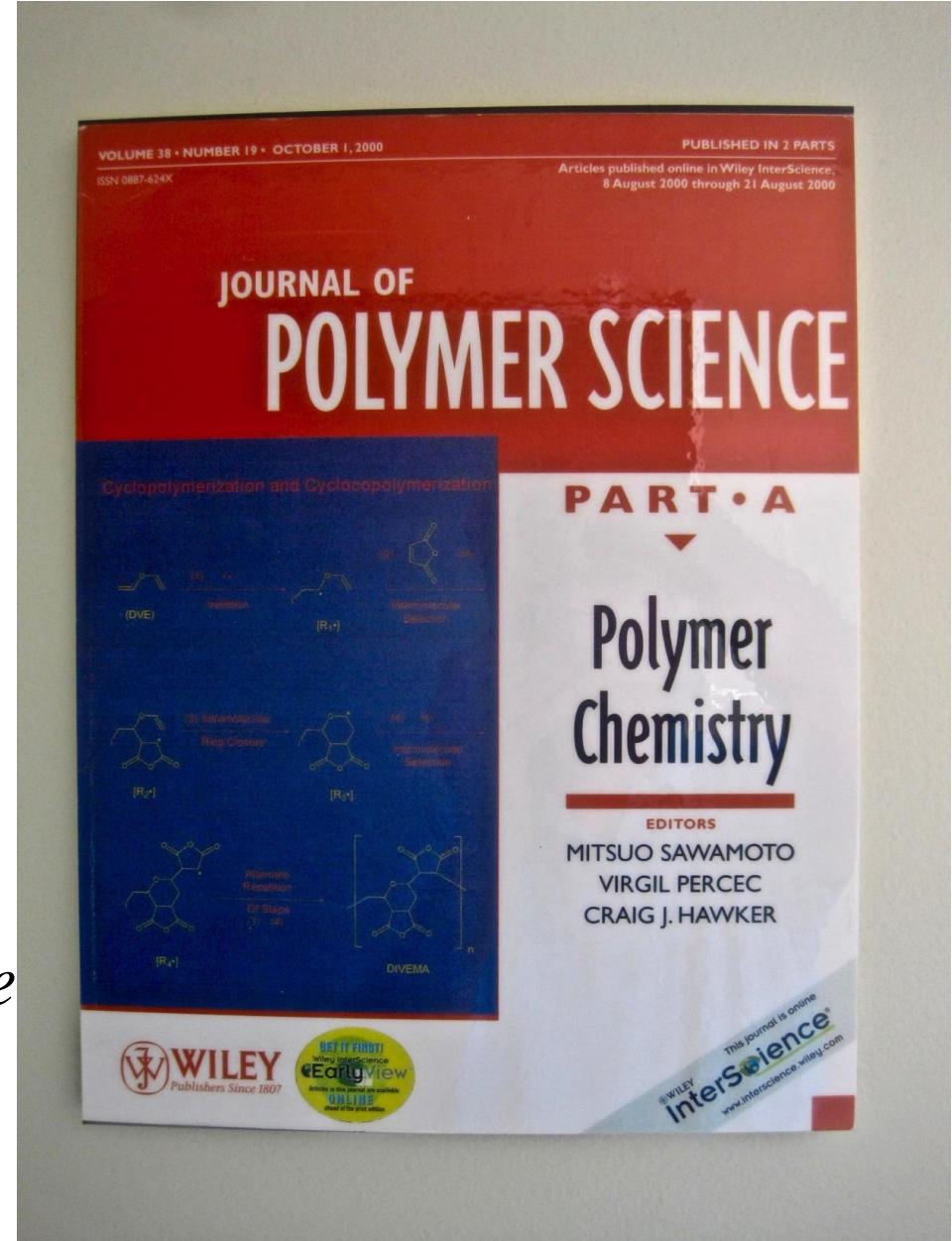
Featured many years

later

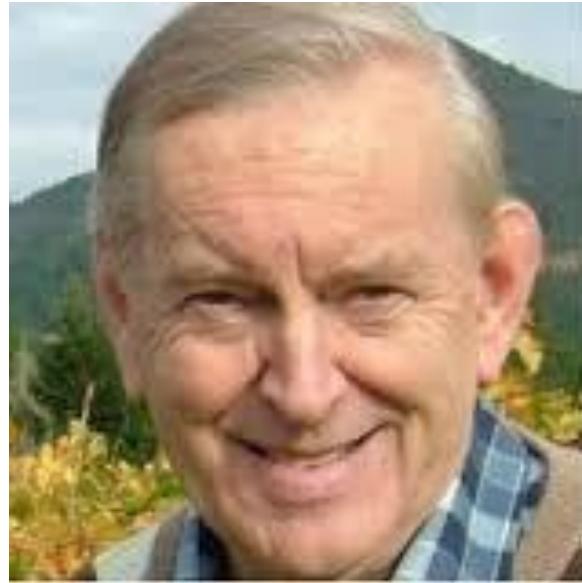
on the cover of

the

Journal of Polymer Science



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Thieo Hogen-Esch
was the first faculty member to
join George Butler in polymers at Florida.
~1970 to 1987 - 17 Years in Gainesville.
Thanks, Thieo. Now at USC.





Ken Wagener graduates 1973 and moves to Akzo bv for 11 years.

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In 1973

off

to

Akzo

In

Asheville

NC

Research

Center



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AkzoNobel

Chemicals company · akzonobel.com

Akzo Nobel N.V., trading as AkzoNobel, is a Dutch multinational, active in the fields of decorative paints, performance coatings and specialty chemicals. [Wikipedia](#)



Stock price: AKZA (AMS) €54.89 -1.28 (-2.28%)

Mar 10, 5:35 PM GMT+1 - Disclaimer

CEO: Ton Büchner

Headquarters: Amsterdam, Netherlands

Founded: 1994

Revenue: 14.3 billion EUR (2014)

Net income: 546 million EUR (2014)

Operating income: 987 million EUR (2014)

Profiles



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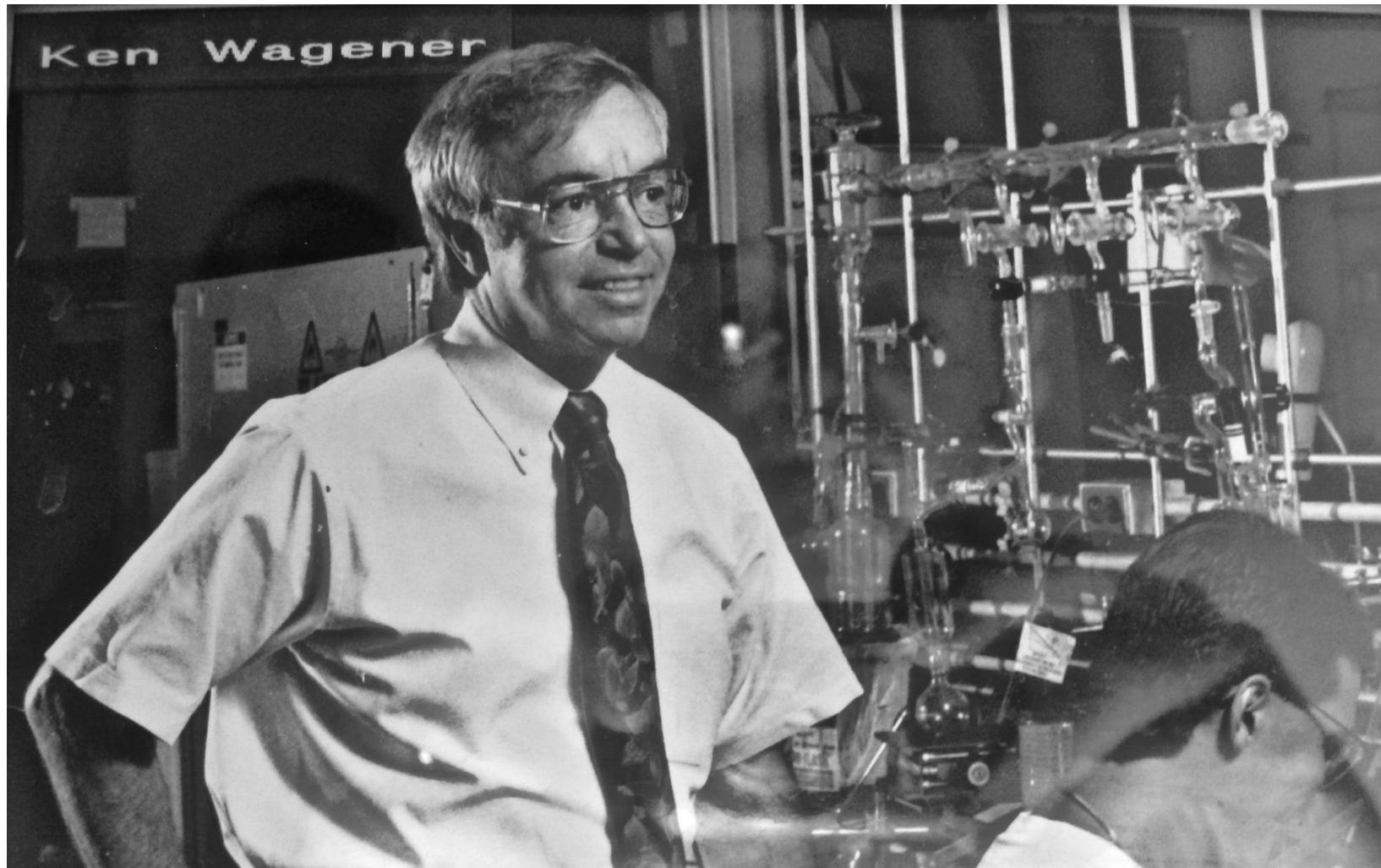
Akzo – Excellent Research Opportunities.



**Artificial Lung – Accidental Discovery –
Made of Polypropylene Hollow Fibers. In Use Today.**

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Industry quite good...however Ken Wagener returns
to Florida in 1984 - Why? **To Teach.**

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Why Teach?

I came to Florida to teach.

Having first done 11 years of research and administrative work with the Dutch firm Akzo Nobel (at its site in North Carolina), I joined Florida in 1984 to teach at a large institution, in addition to doing research.

While in industry I taught night courses after work for 7 years at UNC/Asheville and quickly recognized that teaching is a privilege.

I still believe this is so.



Our Group also had research ambitions (another way to teach).

The caption below:

“He lifted it with trembling hands and shouted,
“Gold! Gold!”



After ~15 years began to pursue a
long term personal goal:

Create
A
“Laboratory”



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How To Do This?

Faculty Unanimous Vote.

Dean Must Agree.

President of University
Must Agree.



Special thanks to
John Reynolds. For
20 years he
helped create
the Butler Polymer
Research
Laboratory.

Thank you, John.



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FIRST OCCUPANTS
GEORGE AND JOSEPHINE BUTLER POLYMER RESEARCH LABORATORY

SEPTEMBER 1994



First Occupants of the George & Josephine Butler Polymer Research Laboratory

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INSTITUT INTERNATIONAL DE PHYSIQUE SOLVAY
CINQUIÈME CONSEIL DE PHYSIQUE BRUXELLES, 1927



A. Piccard, E. Henriot, P. Ehrenfest, E. Herzen, T. De Donder, E. Schrodinger, E. Verschaffelt, W. Pauli, W. Heisenberg, R.H. Fowler, L. Brillouin.
P. Debye, M. Knudsen, W.L. Bragg, H.A. Kramers, P.A.M. Dirac, A.H. Compton, L. de Broglie, M. Born, N. Bohr.
I. Langmuir, M. Planck, M. Curie, H.A. Lorentz, A. Einstein, P. Langevin, C.E. Guye, C.T.R. Wilson, O.W. Richardson.

We challenged them to be like these scientists.

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A Butler Laboratory Goal:

Establish
a
“Lectureship Series”



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The
Butler Lectureship Series
started
with
Prof. Dr. Gerhard Wegner,
MPI/Polymers
Mainz, Germany.





Continues With Karen Wooley
And now in 2015-2016, Bob Waymouth

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Another Butler Laboratory Goal:

Establish

a

Awards For Graduate Students



George and Josephine Butler Polymer Research Laboratory – Department of Chemistry University of Florida

\$3,000 Award To Graduate Students



George and Josephine Butler Polymer Research Laboratory – Department of Chemistry University of Florida

The
Laboratory
grew with
Steve Miller
Joining us...

Dr. Stephen Albert Miller

Division of Organic Chemistry
Department of Chemistry
University of Florida

7.25 四 14:00 - 16:00
新館宿舎視聽教室

Sustainable polymers:
Bio-degradability vs. water-degradability

A portrait photo of Dr. Stephen Albert Miller is shown on the right side of the slide.



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Butler
Laboratory
growth
continued with
Brent Sumerlin



George and Josephine Butler Polymer Research Laboratory – Department of Chemistry University of Florida

And the Laboratory grows today with Dan Savin & Coray Colina.



George and Josephine Butler Polymer Research Laboratory – Department of Chemistry University of Florida

The MacroCenter Welcomes Its New Faculty

Dr. Daniel Savin | savin@chem.ufl.edu



Dr. Daniel Savin graduated from Harvey Mudd College (Claremont, CA) in 1995 with a B.S. in Chemistry and received an M.S. in Polymer Science and a Ph.D. in Chemistry in 1997 and 2002, respectively, at Carnegie Mellon University under the direction of Prof. Gary Patterson. He continued this work as a Postdoctoral Fellow in the group of Prof. Timothy Lodge at the University of Minnesota from 2002–2003. In 2003 he joined the Department of Chemistry at the University of Vermont as an Assistant Professor and in 2008 he moved to the School of Polymers and High Performance Materials at the University of Southern Mississippi. His work has been well-recognized in the scientific community. He has published 32 peer-reviewed articles and has received funding from the NSF, ONR, DOE, Gulf of Mexico Research Initiative, and the Camille and Henry Dreyfus Foundation. While at Southern Miss he led the summer REU program and was highly active in community outreach at the K-12 level. Dr. Daniel Savin has recently joined our research and teaching efforts here at the University of Florida.

Research Interests

Dr. Savin's current research involves the solution characterization of stimuli-responsive peptide-based block polymers for use in controlled release applications. Block polymers self-assemble into various morphologies (i.e.: spherical micelle, vesicle, disk, nanotube) in selective solvent, and the Savin group targets 'smart' materials with complex topologies that give rise to morphology transitions as a function of solution pH and temperature. Such materials have shown the ability to release cargo under specific solution conditions. Other projects underway in the Savin group include: (1) utilizing nanoparticle templates in developing next-generation, 'concentration-independent' oil dispersants, (2) facile production of organogels for oil recovery, and subsequent characterization using cavitation rheology, and (3) modified thiol-ene thermosets as impact energy-absorbing materials for use in personal protective equipment. Our main experimental tools are static and dynamic light scattering, but the Savin group also uses TEM, AFM, rheology and some mechanical testing.

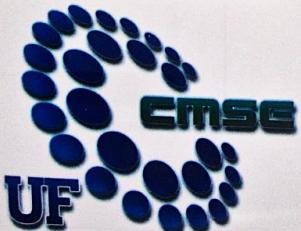
Dr. Coray Colina | colina@chem.ufl.edu



Dr. Coray Colina obtained her Ph.D. at the North Carolina State University (2004) and her B.S. (1993) and M.Sc. (1994) at Simón Bolívar University. She was a Postdoctoral Research Associate in the Department of Chemistry at the University of North Carolina at Chapel Hill. She has been a faculty member at Simón Bolívar University and joined the Department of Materials Science and Engineering at The Pennsylvania State University as Associate Professor in January 2007. She won the 1999 Award for Outstanding Teaching Achievement (at the Assistant Professor level) at Simón Bolívar University, as well as several other awards from the Venezuelan National Committees from the Development of Higher Education and for the Academic Advancement. She has several international collaborations and has presented the results of her research globally in more than 175 national and international conferences. She has published over 80 papers (including conference proceedings).

Research Interests

Dr. Colina's research group strives to understand and predict structure-property relations in functional materials, such as polymeric membranes, biomolecules, and alternative ionic liquids. They use a variety of simulation techniques to gain further understanding of these systems by providing unique insight into structural aspects and phenomena. Complementary to experimental investigations, their work is helping to analyze and interpret experimental results, as well as to predict performance of new materials to guide future experimental design efforts. She has received funding from the NSF, NIH, ACS-PRF, MedImmune, Saint Gobain, and Dow, among others. While at Penn State she led the REU in Soft Materials program for 7 years. In addition, Dr. Colina currently serves as the (Elected) Chair for the Computational Molecular Science and Engineering Forum of the AIChE.



The Center for Macromolecular Science & Engineering
at The University of Florida
www.cmse.ufl.edu

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The George & Josephine Butler Polymer Research Laboratory 2015



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Thank You for 32 Years Of Support In Education

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Sumitomo Chemical Company

Clemson University

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CalTech

Defense Advanced Research Projects Agency, DARPA

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Penn State University

Shell Chemical Company

Universidad del Valle (Colombia)

Universitat Freiburg (Germany)

University of Central Florida

University of Minnesota

University of North Carolina - Chapel Hill

University of Southern Mississippi



And Special Thanks To

- National Science Foundation
- and equally
- Army Research Office



**THE GEORGE AND JOSEPHINE BUTLER
POLYMER RESEARCH LABORATORY**

Established 1946

DEDICATED APRIL 20, 1996



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