

Macromolecular Engineering (ME) is a process comprising rational design of (co)polymers with specific architecture and functionality, followed by precise and efficient polymer synthesis and processing in order to prepare advanced materials with target properties. We employed radical polymerization for ME due to its tolerance to many functionalities although radicals are difficult to be controlled, since they have very short life times (<1 s) and are involved in side reactions. Taming free radicals was accomplished via dynamic equilibria between minute amounts of radicals and large pool of dormant species using copper-based ATRP (atom transfer radical polymerization) catalytic systems. By applying new initiating/catalytic systems, Cu level in ATRP was reduced to a few ppm and ME provided polymers with precisely controlled molecular weights, low dispersities, designed shape, composition and functionality as well as block, graft, star, hyperbranched, gradient and periodic copolymers, molecular brushes and organic-inorganic hybrid materials and bioconjugates. These polymers can be used as components of various advanced materials such as health and beauty products, biomedical and electronic materials, coatings, surfactants, lubricants, additives, sealants as well as nanostructured multifunctional hybrid materials for application related to environment, energy and catalysis.

### MEDAL AWARD BANQUET

5:45 PM Social Hour

6:45 PM Medal Award Dinner

Presiding: Dr. Ruben M. Savizky  
2020 Chair, ACS New York Section, The Cooper Union

ACS Greetings: Dr. Katherine L. Lee  
District 1 Director, American Chemical Society

Introductory Address: Dr. David A. Tirrell  
California Institute of Technology

Presentation of the Medal: Dr. Ruben M. Savizky

Acceptance Address: Dr. Krzysztof Matyjaszewski  
Nichols Medalist

**For More Information: Please visit the New York Section website at [www.NewYorkACS.org](http://www.NewYorkACS.org)**

**Online registration using PAYPAL for payment is available at [www.newyorkacs.org/meetings/Nichols/2020Nichols.php](http://www.newyorkacs.org/meetings/Nichols/2020Nichols.php)**

Or use the Tear Off reservation form at this line

**BANQUET RESERVATIONS DEADLINE – MARCH 15, 2020**

**MAIL RESERVATIONS TO:**

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St. John's University, Department of Chemistry  
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E-mail: [btaylor@NewYorkACS.org](mailto:btaylor@NewYorkACS.org)

		Number	Total
<b>Symposium only:</b>	\$70 (\$50 for ACS Members)	_____	\$ _____
<b>Student, unemployed</b>	\$30	_____	\$ _____
<b>50 year ACS member</b>	\$0	_____	\$ _____
<b>Banquet only:</b>	\$150 (\$130 for ACS Members)	_____	\$ _____
<b>Symposium &amp; Banquet:</b>	\$170 (\$140 for ACS Members)	_____	\$ _____
<b>Table of 8 or more for symposium/banquet</b>	\$150 per person (non-ACS Members)	_____	\$ _____

Reserve our table in the name of: \_\_\_\_\_

Enclosed is my check, payable to: **ACS, NEW YORK SECTION, Inc.** in the amount of \$ \_\_\_\_\_

**If reservations are for more than one person, please attach a list of the guests' names, and dinner selections where needed.**

**DINNER CHOICES:** Chicken \_\_\_\_\_ Prime Rib \_\_\_\_\_ Salmon \_\_\_\_\_

**Tickets will be mailed to the person designated below**

**NAME** \_\_\_\_\_ **PHONE** \_\_\_\_\_

**ADDRESS** \_\_\_\_\_ **E-MAIL** \_\_\_\_\_

**CITY, STATE, ZIP** \_\_\_\_\_