

# Rubber Elasticity

A Symposium  
Honoring

**Dr. Ronald S. Rivlin**

on the occasion of his  
induction into the  
International Rubber Science  
Hall of Fame  
for  
developing the theory of large  
elastic deformations and the basic  
mechanics of the strength of  
rubber.

Presented by:

*The University of Akron  
Institute of Polymer Science and  
Polymer Engineering*

and

*The Rubber Division of the  
American Chemical Society*

## PROGRAM:

- |            |  |      |   |
|------------|--|------|---|
| 8:30       | Continental Breakfast  | 3:20 | Roger L. Fosdick, "The Elements of Thermodynamics and the Second Law for Ponderable Bodies"                                     |
| 8:50       | Welcome and Introduction to IRSHF  | 4:10 | Alan S. Wineman, "Mechano-Chemical Evolution in Elastomers at Large Deformations and Temperatures: Experiments and Simulations" |
| 9:00       | Gregory B. McKenna, "Rivlin, Strain-Energy and Swelling in Rubber"   | 5:00 | Closing Remarks   |
| 9:50       | Break  | 6:00 | Social Hour – Martin Center   |
| 10:10      | Mark R. Gurvich, "Hyper-Elastic Modeling of Anisotropic Rubber Materials and Composites"   | 7:00 | Banquet and Installation Ceremony (by reservation) – Martin Center  |
| 11:00      | Herman F. Nied, "On the Application of Hyperelastic Material Models in the Simulation of Thermoforming and Blow Molding Processes" |      | <i>Michael M. Carroll - <b>Biography and Personal Remembrances</b></i>  |
| 12:00-1:20 | Lunch Break  |      |   |
| 1:20       | Alan N. Gent, "100 years of the Poynting Effect and Non-Linear Elasticity"   |      |   |
| 2:10       | Michael M. Carroll, "Strain Energy Functions for Rubber"   |      |   |
| 3:00       | Break  |      |   |

## SPEAKERS:

- Professor Gregory B. McKenna, Texas Tech University
- Dr. Mark R. Gurvich, United Technologies Research Center
- Professor Herman F. Nied, Lehigh University
- Professor Alan N. Gent, The University of Akron
- Professor Michael M. Carroll, Rice University
- Professor Roger L. Fosdick, University of Minnesota
- Professor Alan S. Wineman, University of Michigan

International Rubber Science Hall of Fame  
Selection Committee

Roderic P. Quirk, Chair  
Krishna C. Baranwal  
Gary R. Hamed

Alan N. Gent  
David O'Brien

## REGISTRATION FOR THE SYMPOSIUM ON NOVEMBER 6, 2008 HONORING

DR. RONALD S. RIVLIN

I will be attending (please check):  
Symposium   
Goodyear Auditorium, Room 229  
Goodyear Polymer Center

Installation Dinner, (\$25.00, by reservation  
only) 7:00 p.m.   
Martin University Center

Name:	
Company:	
Address:	
City:	
State:	Zip:
Phone:	Fax:
email:	

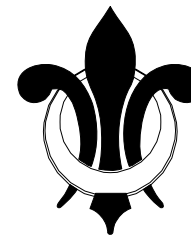
Detach and return your registration (with your check) made payable to the Institute of Polymer Science and Polymer Engineering by **October 29, 2008** to:

The University of Akron  
The Institute of Polymer Science and  
Polymer Engineering  
Akron, Ohio 44325-3909

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# International Rubber Science Hall of Fame

**November 6, 2008**



The University of Akron  
Goodyear Polymer Center  
Akron, Ohio