

4-24-1970


## The 82nd Session of the Iowa Academy of Science and the 38th Convention of the Iowa Junior Academy of Science, April 24-25, 1970

Iowa Academy of Science

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**The 82nd Session of the  
Iowa Academy of Science  
and the 38th Convention of the  
Iowa Junior Academy of Science**

**at Grinnell College  
April 24-25, 1970**



## Featured Speakers



**ROBERT N. NOYCE**

President,  
Intel Corporation

Friday, April 24  
11:00 A.M.

Darby Gymnasium

*Microminiaturization:  
Much Ado About  
Almost Nothing*

Holder of some 15 patents on semiconductor methods, devices, and structures, Dr. Noyce has been a leader in solid-state physics and semiconductors for 17 years. After receiving his B.A. from Grinnell College in 1949 and his Ph.D. from Massachusetts Institute of Technology in 1953, he was successively associated with Philco, Shockley Transistor, Fairchild Semiconductor, and Fairchild Camera and Instrument before becoming president in 1968 of Intel, a new firm specializing in microcircuitry.



**PAUL R. EHRLICH**

Professor of Biology,  
Stanford University

Friday, April 24  
7:30 P.M.

Darby Gymnasium

*The Population Crisis:  
Where We Stand*

A Stanford faculty member since 1959, Dr. Ehrlich holds a 1953 B.A. from the University of Pennsylvania and a 1955 M.A. and 1957 Ph.D. from the University of Kansas. His research interests include density effects in human population, studies of natural and laboratory populations, plant-herbivore co-evolution, and butterfly evolution. He has written scores of scientific papers and popular articles and is author or co-author of five books, including *The Population Bomb*, published in 1968.



# Program Highlights

FRIDAY, APRIL 24

## PANELS

CONSERVATION SECTION, Jointly with Botany and Zoology

2:20-3:50 P.M. — Herrick Chapel

*Ecology in the '70's*

Participants: ROBERT BUCKMASTER, Iowa Water Pollution Control Commission; FREDERICK PRIEWERT, Director, State Conservation Commission; SENATOR ALDEN ERSKINE, Chairman, Conservation Committee of the Iowa Senate; ROBERT RUSSELL, Executive Secretary, Izaak Walton League, and Past Chairman, State Preserves Board; C. L. CAMPBELL, Executive Secretary, Iowa Air Pollution Commission

## MATHEMATICS SECTION

1:25-1:35 P.M. — A.R.H. Auditorium

*Problems Incident to Articulation*

Participants: GEORGE PEGLAR, Iowa State University; MERLIN FISCHER, Iowa Central Community College, Eagle Grove; DAVID Q. PORTER, Eastern Iowa Community College, Muscatine

1:35-2:35 P.M. — A.R.H. Auditorium

*Enrollment Trend in Undergraduate Mathematics*

Moderator: ARNOLD ADELBERG, Grinnell College

## FILMS

9:30 P.M. — A.R.H. Auditorium

*The Upper Iowa River in the Federal Wild River System* (50 minutes), presented by the Conservation Section

10:30 P.M. — A.R.H. Auditorium

*Who Killed Lake Erie?* (50 minutes), a TV documentary sponsored by the Grinnell College Department of Biology

SATURDAY, APRIL 25

## GENERAL SESSION

11:15 A.M. — Herrick Chapel

## OTHER

Friday — 9:00 P.M. — Roberts Theatre

Play, *The Three Sisters* by Anton Chekhov, presented by the Grinnell College Department of Theatre (tickets free at registration on a first-come basis)

Commercial Exhibits — Hall of Science, Room 126

Conard Environmental Research Area (see back page)  
— You are invited to walk through the area, which is 11 miles southwest of Grinnell. Brochures with directions available in the registration area.



THE SCENE ABOVE and the one on the front cover of this folder are from Grinnell College's newest scientific facility, the Conard Environmental Research Area, which is being restored as "a segment of Nature left to her own devices." The area is named for Henry S. Conard, the internationally distinguished botanist who taught at Grinnell for nearly 40 years and who continues active in research and writing though "retired" and now 95 years old. A 365-acre tract of wooded hills and grassland bordering the Skunk River 11 miles southwest of Grinnell, the area, partly farmed in past years, is being restored as nearly as possible to its original, natural state. It came into use as an outdoor laboratory a little more than a year ago, and Grinnell students and faculty have already set in motion a number of special studies and research projects dealing with the abundant and varied flora and fauna of the area. The CERA aptly complements the many other facilities of the Grinnell Division of Science in the large, modern Hall of Science and other buildings on campus. The departments of Biology, Chemistry, Mathematics, Physics, and Psychology are included in the Division of Science.