

# Students research papers to be read at symposium

Students from Groves High School in Birmingham, Lahser High School in Bloomfield Hills and Our Lady of Mercy High School in Farmington will be presenting original research papers at the 12th Annual Junior Science and Humanities Symposium to be held Friday and Saturday, Feb. 20-21 in McGregor Memorial Conference Center at Wayne State University.

They are Gerald G. Lopatin, 30436 Embassy Drive, Birmingham (Groves); John Ragheb, 705 N. Valley Chase, Bloomfield Hills (Lahser); Susan M. Hommel, 25008 Castlereagh Farmington (Our Lady of Mercy); and Lynn B. Podrycki, 7255 Cold Spring, West Bloomfield (Our Lady of Mercy).

Lopatin's paper, devoted to the area of chemistry, is entitled "A Study of the Efficiency of Electrolytic Hydrogen Production." Ragheb's paper on plant life examines "The Role of Ace-

tycholine in the Reaction Mechanism of the Plant Mimosa pudica." Miss Hommel's paper, in the field of earth science, deals with "Hydronium Ion Concentration in the Precipitation of Farmington Hills, Michigan." and Miss Podrycki's paper on botany, concerns research on "Plant Growth Stimulation Through Electroculture."

**THE FOURSOME** will be among 12 students presenting papers at the symposium which focuses on the theme of "The Bicentennial: Learn from the Past—Learn for the Future." Six of the 12 will be selected to participate at a later date in the annual National Junior Science and Humanities Symposium in Washington, D.C.

Students from public, parochial and private high schools in Southeastern Michigan were invited to submit papers for the symposium, with au-

dience participation limited to 175 students and 75 teachers.

Nationally and internationally recognized scientists and humanists will address the symposium audience. Main speaker for the two-day event will be Dr. Christian B. Anfinsen of Bethesda, Md., 1972 Nobel Prize winner in biochemistry. He will discuss his protein-winning research in "Protein Structure" Friday night, in the Grand

Ballroom of the University Center Building at Wayne State University.

**THE SYMPOSIUM** is co-sponsored by the United States Army Research Office (Durham, N.C.), the U.S. Army Tank-Automotive Command (Warren, Mich.), and Wayne State University, in cooperation with the Detroit Chapter of the Association of the U.S. Army, the Michigan Chapter of the

National Defense Preparedness Association, Michigan State Department of Education, Oakland University, the University of Detroit, and Lawrence Institute of Technology.

Primary purpose of the symposium is to stimulate interest in the sciences and humanities among high school students and to emphasize the role of the sciences and humanities in the national culture and general welfare.

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## Volunteers

This column describing volunteer needs in Oakland County is cosponsored by the Junior League of Birmingham and the Oakland County Volunteer Bureau.

Inquiries regarding volunteer needs listed here should be made to the Oakland County Volunteer Bureau at 643-7272. Requests for volunteer listing should also be made through the Volunteer Bureau.

**INTERNATIONAL CULTURAL EXCHANGE** needs families to house high

school and college students from Ecuador from May until the end of May. June Homes are needed near Oakland Community College, high school students can go to any local school. Students have their own medical insurance and spending money and only need housing and food. The students are in temporary housing now and need permanent school semester homes. The students need affection and interest in a situation that can be enriching for both the student and his temporary "adopted" family.

**BIRMINGHAM DAY CARE CENTER**, a non-profit organization, cares for children between the ages of 2 1/2 and 5 and to five on an all-day basis five days per week. Volunteers are needed with talents to offer enrichment opportunities for children such as creative dancing, story-telling, music or puppet shows.

**BIG BROTHERS-BIG SISTERS PROGRAM**, Oakland County Area Service Center, needs volunteers over 18 to provide companionship for boys and girls from one-parent families. There are 200 boys and girls waiting for a big brother or sister. Volunteers are asked to spend a few hours each week with their child.

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## Mum society plans meeting

Robert Culver of Detroit will present a program on "Growing Plants under Lights" at a meeting of the Greater Detroit Chrysanthemum Society on Sunday, Feb. 1, at 2 p.m. in Tel-Twelve Hall community room, 12 Mile and Telegraph, Southfield.

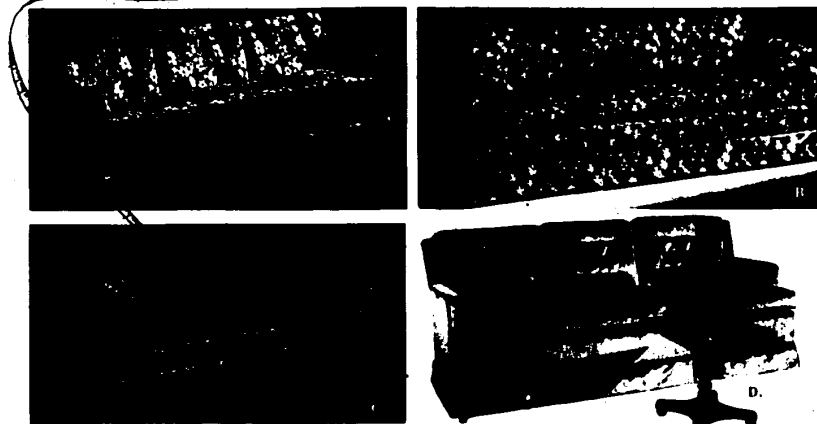
Culver, a member of the society's executive board, will show slides to demonstrate his methods of propagation and use of insecticides. Some of his plants growing under lights will be available. These include young mum plants, geraniums, begonias and impatiens.

There is no admission charge.

Newly elected officers of the society are Edwin M. Slesak Sr. of Livonia, president; Mrs. Mack Norwood of Detroit, first vice president; and Otto Mehlinger of Livonia, second vice president.

Recording secretary is Mrs. Theodora Woods; corresponding secretary is Mrs. Marie Gasko; treasurer, Elmore Frank; parliamentarian, Mrs. Paul Machuga; and editor, Frank Kemp.

Directors are Robert Culver, James Buha and Frank Ronan of Detroit, Robert Greene of Milford, Paul Machuga of East Detroit and Charles Makakis of Southfield.



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