



Betty Wannerer (Fiscal) and Jack Barro were married at St. James Church in Lakewood on July 11. They went to Niagara Falls for their honeymoon.

Cliff Temes (Physics Div.) and Vivian Newman were married in New York and spent a week in Canada.

Vacationing at Tabor Farm, Sodus, Mich. are Evelyn Leopold (Air Force) and her husband.

**Coincidence Dept.** - Mary Lou Gosney (Adm. Serv.) going to Sparrows Point, Md. for the launching of a Sinclair Oil Co. boat with an identical name, the M.L.Gosney.

The Library staff enjoyed a picnic on July 16 with steaks broiled by Chef Tom Ferraro.

Al Evans (F&C) is the father of a baby girl born July 2.

#### ELECTRICAL ENGINEERING NEWS

Virden Beckman and family are enjoying some time at Kelley's Island. John Kelley has a new daughter, Karen Sue. Franz Logerwell and family spent two weeks touring Nebraska and the Black Hills of South Dakota. William Keller and his wife attended the A.I.E.E. convention in Atlantic City and also had a short tour of New York City. Leslie Curtner is the father of a son, Mark. Ralph Anders announces the arrival of Ronald Michael. Harry O-

#### SECURITY RISK FACTORS

States by unconstitutional means.

5. Membership in, or affiliation or sympathetic association with, any foreign or domestic organization, association, movement, group or combination of persons which is totalitarian, Fascist, Communist, or subversive, or which has adopted, or shows, a policy of advocating or approving the commission of acts of force or violence to deny other persons their rights under the Constitution of the United States, or which seeks to alter the form of government of the United States by unconstitutional means.

6. Intentional, unauthorized

burst has returned from a fishing trip to Minnesota. Thelma Allyn is back on the job after an ankle injury.

#### NEWS FROM AWT

Marge O'Connell reports this news. Art Zimmerman was married on June 20 to Frances Hoxie in Jackson, Mich. Both are graduates of the University of Michigan. Mrs. Zimmerman will teach in Rocky River High School this fall.

Harry Bloomer has returned from a 4000-mile car trip to New Orleans, Miami Beach, Alabama and Washington, D.C. Fred Schulze drove to California making stops at the national parks. Dick Golladay spent a week travelling through Canada.

**In the baby department:** Douglas George was born to the family to George Dar-chuk on June 16; Patrick Richard arrived at the home of John McAulay on June 27.

Passing out cigars are Jerry Fox to celebrate the arrival of Michael David on July 3, and George Wise in honor of Deborah Ann born July 1.

Virgil Sandborn and Hobson Stalmaker (TSB) had such abundant catches that they brought some home from their fishing and camping trip in Pickler River, in the Georgian Bay region.

Eli Reshotko and Adina Venit became Mr. and Mrs. on June 7 in New York City.

disclosure to any person of security information, or of other information disclosure of which is prohibited by law, or willful violation or disregard of security regulations.

7. Performing or attempting to perform his duties, or otherwise acting, so as to serve the interests of another government in preference to the interests of the United States.

#### M&T ANNUAL PICNIC

M&T Division annual picnic is set for Sunday, August 2. A big time is planned and all research and service workers are invited.

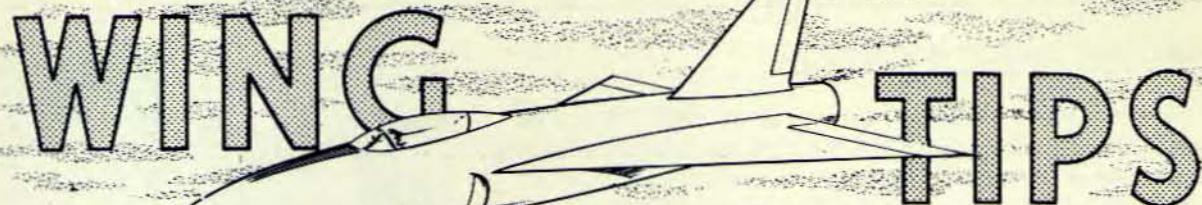
#### RACKETEERS COMPLETE ROUND

25 tennis players ended the first round and will play a round weekly, finals in August.



Basketball Champions - With a perfect season of ten wins and no losses, the Supersonics blazed through to win the NACA Basketball Championship. Pictured to the left they are: standing, l to r: Ken Weston, Eli Reshotko, Ron Huff, Larry Gertsma, Hal Ferguson, Bruce Chiccine. Seated, l to r: Jim Connors, Virg Sandborn, George Bendis. Not present, Carl Larson.

# WING TIPS



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## RESHOTKO RECEIVES GUGGENHEIM FELLOWSHIP

Each year, four young scientists in the nation are awarded Daniel and Florence Guggenheim Fellowships for advance study in aeronautics.

One of the four chosen this year is Eli Reshotko, head of the fluid mechanics section of Propulsion Aerodynamics Division. He will leave in September for advanced study in jet propulsion at California Institute of Technology. The fellowship carries a grant of \$2000 plus tuition.

A member of the Lewis Laboratory staff since June, 1951, Eli received his Bachelor's Degree in Mechanical Engineering from Cooper Union in 1950, and his Master's Degree in Mechanical Engineering from Cornell University in 1951.

Eli Reshotko.

# ICOMP Attracts Experts In Computational Mechanics

To develop and improve problem-solving capabilities in all aspects of computational mechanics related to propulsion, a unique new institute at Lewis recently completed its first year of activities.

Called the Institute of Computational Mechanics in Propulsion (ICOMP), the program is administered jointly by Lewis and Case Western Reserve University (CWRU). ICOMP brings highly qualified, widely recognized researchers from around the world to the Center to perform research in their areas of expertise and interact with the Lewis staff. Last year 20 researchers came to Lewis from throughout the U.S. and Israel, Taiwan, and Great Britain for periods of one month to a year.

Lewis scientists in the Internal Fluid Mechanics and Structures Division have had the opportunity to learn from and share ideas with these visiting researchers, whose expertise covers the gamut of interests in computational mechanics. Several of the visiting professors brought graduate students with them to Lewis, which further promoted interaction and benefits future relationships.

During a workshop last summer, the visitors reviewed their work for Lewis scientists and interested researchers from local universities. In addition, several technical reports and presentations in fluid mechanics and structures computational methodology have been developed.

Applications for ICOMP are solicited through advertisements

in several technical publications and through the recommendations of knowledgeable Lewis and CWRU staff members. Applications include a resume of the candidate's academic, professional, and personal data and a brief description of his or her proposed research. The ICOMP steering committee that administers the program reviews the applications and makes all selections. The duration of appointments is flexible, ranging from several weeks to a year.

Leaders of the ICOMP steering

committee are: CWRU professor Dr. Eli Reshotko, chairman; Lewis retiree Dr. Charles Feiler, executive officer; and Deputy Chief of the Internal Fluid Mechanics Division Dr. Louis Povinelli, Lewis coordinator. Other steering committee members include: Dr. Marvin Goldstein, chief, Office of Chief Scientist; Brent Miller, chief, Internal Fluid Mechanics Division, Dr. Lester Nichols, chief, Structures Division; and CWRU professors Dr. Isaac Gerber and Dr. Robert Mullen. A search is cur-

rently underway for a full-time director to administer the ICOMP program.

"The steering committee expects the ICOMP staff to grow to 24 visiting researchers this summer and become exposed to a wider variety of internal fluid and structural research activities at Lewis," says Dr. Povinelli. "We also believe this unique and growing institute will continue to gain recognition throughout the international scientific community."



The Institute of Computational Mechanics in Propulsion (ICOMP) attracts widely recognized researchers from around the world. Shown above are some of the 20 ICOMP researchers who visited Lewis in 1986. Back row (left to right): Dr. Eli Reshotko, Case Western Reserve University, Chairman, ICOMP Steering Committee; Louis Povinelli, Lewis ICOMP Coordinator; Joseph Grady, Purdue University; Michael Plesha, University of Wisconsin; John Lavery, CWRU; Avram Sidi, Israel Institute of Technology; Alex Solomonoff, Tel Aviv University; and David Walker, Lehigh University.

Front row (left to right): Chin-Sun Lin, Iowa State University; Isaac Greber, steering committee member, CWRU; Lola Boyce, University of Texas; Fred Akl, Ohio University; and Shih-Hung Chang, Cleveland State University. Current ICOMP researchers not pictured: Shih-Tuen Lee, National Taiwan University; Chowen-Chou Wey, Georgia Tech University; Kenneth Ellis, Virginia Tech; Jeffrey Meister, University of Akron; Stephen Cowley, Imperial College; Eli Turkel, Tel Aviv University; and Lewis retiree Charles Feiler, Steering Committee Executive Officer.



Joe Saggio, comptroller, gave his directorate message June 21, where he discussed the FY '88 and '89 budgets, possible ways to increase space at the Center, the status of LIMS implementation, installation of automatic teller machines in the Employee Service Center and implementation of the No Smoking policy. A picnic lunch followed a question and answer period.

## **ICOMP Sponsors Summer Workshops**

The computational aspects of fluid mechanics and structural mechanics are the topics of workshops sponsored by the CWRY/NASA Institute for Computational Mechanics (ICOMP). The first workshop, which was held July 20, dealt with the "Unsteady Phenomena in Turbomachinery." Speakers included Lewis staff members from the Internal Fluid Mechanics and Structures Division and the Office of the Chief Scientist and ICOMP visiting researchers from five universities.

The second workshop is scheduled for August 16 in the Ad. Bldg. auditorium. It will focus on the topic of "Dealing with Large Gradients in Fluid Mechanics and Structural Mechanics." Speakers will be from Lewis and the ICOMP staff. Those planning to attend the workshop should contact Chris Calvert at 3-2966 or Fran Pipak at 3-5820. "These workshops are an important, on-going activity of ICOMP," said Eli Reshotko, chairman of the ICOMP Steering Committee.



Approximately 60 persons participated in the ICOMP workshop dealing with "Unsteady Phenomena in Turbomachinery," which was held in the Ad. Bldg. auditorium on July 20.