



LOBBY LINES

By Mary Louise Gooney

Alun R. Jones from the Moffett Field lab attended the De-Icing Subcommittee in Cleveland April 9.

Joe Vensel (Flight) leaving for the West Coast on official business . . . The Wind Tunnel crowd happily settled in their new home in the Supersonic Tunnel office building...

Pearl Young, formerly of Editorial, in town for a few days recently, and feted by her many friends at a series of dinners, cocktail parties, teas and luncheons. . . *Leona Tomasi* (R&T) returning to work after a long bout with that flu bug. . . *Peggy Anons* has returned to the lab (Procurement) after a few terms at Baldwin-Wallace College.

Friends of *Fannie Sewell Bullard*, formerly of F&L, and now living in Portsmouth, Virginia, will be interested to learn of the arrival of a son, Robert Marshall Bullard. . . *Alois T. Sutor* (Eng.Perf.) announces a baby boy, Raymond Charles Sutor, weight 6 pounds 14 ounces. . . Word was received by *Frances Jackson* (Drafting) that *Elaine Houchin*, formerly of Drafting, now Mrs. Martin Syme of Georgia, has a son. . . *Simon Ostrach* (Eng.Perf.) announces Stefan Alan Ostrach's arrival on April 18, weight 8 pounds. . . *Lou Riegan* (Bldgs.&Grnds.) has a baby daughter, Mary Anne.

Dorothy E. Blue (Ad.) leaving for new fields of endeavor with the sincere wishes of her many friends at the Lab for much success and happiness.

. . . *James Connors* (WT) married April 18. . . *William Koffel* (WT) and *Marilyn Barry* (F&T) being married on May 3. . . *Dick Golladay* (WT) and *Norman Lee Turner* (Comput.) married March 20. . . *William Bowles* (Photo Serv.) married April 12 to a Cleveland girl. . . *Ed Bisson* (Eng.Perf.), busy these days with plans for that trip to Vermont in May, when he will marry Miss *Fernande Trottier*.

Shakee Partoyan (Ad.) back on the job after time out for an appendectomy. . . The *Potuceks* (*Jim*, of Receiving, and *Mary*, of Fiscal, vacationing at Boise, Idaho.



Lobby Lines



OSTRACH RECEIVES DEGREES

Simon Ostrach, formerly of the Turbo-Propeller Performance Section, EP & M, who is now on leave to complete his studies for a doctorate at Brown University, recently received two degrees from graduate schools in Rhode Island. The first degree was the professional degree, Mechanical Engineer, awarded him by Rhode Island State College, and the second was a Master of Science in Applied Mathematics from Brown University.

DIAPER DERBY

Ruth and Robert Campbell, both formerly of C & T, are the proud parents of a daughter, *Christine Elizabeth*, born June 10, weight 6 lbs. 8 oz.

John Esterly (EP & M) announces the birth of a son, *John Mark*, on June 3.

Another new father is *Art Geofrion* (Report Illustration) whose second child, *Gary Alan*, a big boy of 9 lbs. 6 ozs., was born on June 16.

From the Machine Shop comes news of the birth of two babies, a boy to *William Szabo*, and a girl to *Joe Ruksenos*. Other recent additions include a son to *John Tymkewicz* of the Thermocouple Shop, and a girl to *John Gallovic* of the Instrument Shop.

POTPOURRI

through Canada and the New England States.

Recently returned from an extensive trip through California are *Emily Ertl* (Mail and Files) and *Beverly Webber* (C & T Computing).

CALL FOR LAURA

Laura Holden (F & T Computing) is among the six finalists, one of whom will be selected as hostess and queen of the All-Ohio Air Tour, July 22, 23, and 24.



The contest sponsored by the Cleveland Junior Chamber of Commerce, will finish with a television show featuring the finalists over WEWS at 8:00 p.m. tonight. Decision of the three judges plus the number of phone calls received at the station for each contestant will determine the winner.



WING TIPS is published at the Lewis Flight Propulsion Laboratory of the National Advisory Committee for Aeronautics, Cleveland 11, Ohio, in the interest of the employees. Contributions should be sent to the WING TIPS Office, Room 200, Engine Research Building, telephone, 3284.

Jane Eckert.....Editor
Cliff Haight.....Sports Editor
Frank Lalli..Circulation Mgr.
NACA Employees.....Reporters

CASE ANNOUNCES NEW M.E. COURSES

Two new campus courses for the spring semester have been announced by Case Institute of Technology.

The Dynamics of Viscous Flow (ME 227) will be taught by Dr. Simon Ostrach of the Supersonic Propulsion Division. Dr. Ostrach recently received his doctorate in applied mathematics from Brown University. This course will be offered on Mondays and Thursdays from 6:30 to 8:00 p.m. A continuation may be made available.

Another new course for the coming semester is Advanced Instrumentation and Control (ME 166) which will be taught by Dr. Donald P. Eckman. Dr. Eckman, an authority in the field of automatic controls, has recently joined the Case faculty. The hours are Monday, 4:30 to 6:00 p.m. and

CASE COURSES

duction to Theoretical Physics I (P 201) will continue here from 4:00 to 6:00 p.m. on days suitable to the class members. Electro-magnetic theory and optics will be covered this semester. This work may be taken independently of the first semester. Both semesters will be repeated next year.

Also continued is Mr. I. I. Pinkel's Airfoil Theory (ME 225) at Harding Junior High School on Wednesdays from 7:00 to 10:00 p.m.

CHANGE IN LOCATION

Compressible Flow Theory II (ME 228) taught by Dr. R. E. Bolz will be given on the campus instead of at Harding. Hours are 4:30 to 6:00 p.m. on Mondays and Wednesdays.

NUCLEAR CHEM. POSSIBILITY

Advanced Nuclear Chemistry Laboratory (CH 281) announced in the bulletin may not be given unless special arrangements can be made between Case and the Lab.

Bulletins describing all of the graduate courses have been placed in section offices for reference. Further questions may be directed to Willson Hunter, 3266.

Registration will be conducted here in the auditorium beginning at 1:30 p.m. on February 2. Department representatives will be present for counseling.

G.I. BILL DEADLINE

It is important for those students expecting G.I. aid to remember the deadline of July 26, 1951. Details of this ruling were outlined in WING TIPS, September 1, 1950.



STORKISTICS-----

It was a baby boy -- 7 pounds exactly - born to the Albert Ross's on August 12. Charles Albert is the name of the new arrival, and he is their second child.....Douglas Gurney, 8 pounds 4 ounces, was born July 19 to Ray and Mona Haldeman. Mona is a former C&T computer.....Louis Hayman is the new addition to the Simon Ostrach family (SWT), born July 31....Art Barker (M&S) is the proud papa of a son, Peter, 6 pounds 4 ounces, who was born on July 30...Frank Rom (M&S) is the proud father of a daughter, Mary Anne Louise, born July 28, weight 7 pounds 11 ounces. Mama is the former Marilyn McNamara of the Editorial Office..... A double order of everything is the rule in the Wachtl household these days, since the arrival of the twins, Denise Lynn and David William, on August 12. Busy parents are Milly (formerly of SWT) and Bill (M&S) Wachtl...

SICK BAY-----

Sid Huntley (ERD) spending some time in Cleveland Clinic where he may have to undergo surgery.....Marty Walton (Switchboard) back on the job after being stricken with a severe case of ptomaine poisoning...

WEDDING BELLS-----

Frances Dunkle (M & S) and Kenneth Coffin (F & C) have set their wedding date for September 15.....Jeannette Krent (Serv. Scheduling) recently became engaged to Richard Jacobson, a student at Fenn College....Betty Rash (Mech. Drafting) and H. Thayer Murphy (formerly Instal. Des.) were married August 1 in Jacksonville, Florida...

IN APPRECIATION-----

I would like to express my deep and sincere appreciation for the many kind and thoughtful acts extended to both my family and myself by the members of the NACA staff, during my recent illness.

Austin F. Reader

We wish to sincerely thank everyone for their kind expressions of sympathy and beautiful flowers, so deeply appreciated in the bereavement of our mother.

Royall J. Boyd and family

John Farley (ERD) back from 2 weeks active duty as a pilot in the Air Force at New Orleans, La.....Reporting for 2 weeks active duty with the Infantry at Fort Knox, Kentucky, is Adam S. Lewski (ERD).....Myron Sestak (M&S) a bombardier navigator is on a 15-day active duty tour at Chanute Air Force Base, Ill.

DISCUSS VISCOUS FLUIDS
AT STAFF MEETING, MAY 12

Topics in viscous, turbulent and hypersonic flow will be discussed by members of the Supersonic Propulsion Division at the staff meeting on May 12.

General topic for the evening will be the aerodynamics of viscous fluids with Speakers Robert Blue, Rudolph Haefeli, Frank Moore, Simon Ostrach, Herbert Ribner, Virgil Sandborn and Maurice Tucker.

The following abstract to describe the discussion has been supplied:

The viscosity of air can produce large friction forces on high-speed aircraft. The magnitude of these forces depends not only on the speed of the aircraft, but also on whether the layer of air near its surface is laminar or turbulent.

Recent theoretical and experimental findings will be discussed. Additional topics include (1) evaluation of changes in the turbulent fluctuations of an air stream as it passes through wind tunnel nozzles and screens, (2) the importance of free convection processes in modern propulsion systems and (3) problems associated with experimental research at air speeds greater than five times the speed of sound.

before May 22 will take the written exam on May 24.

Further questions concerning this announcement should be directed to Emilie Mateyka, 2246.

Lobby Lines



Robert Miller (AWT) became a father for the first time on April 1 with the birth of Lynn Louise. Dan Monroe (C&T) announced boy number two, Dennis Alan, on March 19; mother is Emma Toth Monroe who was Oscar Schey's secretary before her marriage. Dave Straight (F&C) has a new boy addition to his family. Ralph (Mech. Services) and Joan Jocke (ex-Mail Room) are parents of a nine-pound boy who checked in to the world on April 7. Passing out cigars on March 29 in honor of his second baby girl was Barry Moskowitz (SPD). Arlington (Process Systems) and Alice (ex-Adm.) Adams are thrilled with their adopted daughter.



Charles Teeter (Heat Transfer Section) and Miss Marjorie Brewer, a surgical nurse at Akron City Hospital, will be married in the First Moravian Church at Dover, Ohio on May



31. Miss Brewer is the daughter of Mr. and Mrs. Homer G. Brewer of 1424 Chestnut St., Dover. Gail Sherwood (Computing) has received a sparkling engagement diamond from Neil Rattray.

The girls in the 8X6 SWT are planning a dinner for Loree Watson who became Mrs. Jack Dover on March 14, Pat Boehmer who will wed Jack Zeman (Electrical Operations) on April 25, and Rose Sakach who becomes Mrs. John Zedella on April 18.

John Papay (Erection & Repair) is back to work after a prolonged absence due to eye difficulties. Marie Solomon (Computing) chose Miami, Fla. for a spring vacation spot. Miriam Johnson (Computing) has resigned to await a date with the stork. Victor Parker (Drafting) spent an enjoyable vacation in Florida with his brother who owns a cattle ranch at Live Oak. Expanding on the glories of Florida is Jack Smith (SPD) who has returned from a vacation at Fort Meyers. Other vacationers in the land of sunshine are Marge (F & C) and Al (Mech. Services) Donaker, and Dave Binne (Traffic).

Si Ostrach (SPD), who has been refereeing various amateur and collegiate wrestling bouts this season, has been invited to join the American Wrestling Coaches and Officials Association.

WING TIPS, an official publication of the Lewis Flight Propulsion Laboratory, National Advisory Committee for Aeronautics, Cleveland 11, Ohio, is published bi-weekly in the interest of Lewis employees. Send contributions to the Editor, 104 ERB, telephone 3284. Deadline: Thursday after pay day.

Editor.....Marjorie Hyre

Reporters.....NACA Employees

WE POINT WITH PRIDE

Among the forty-four original papers by leading scientists from England, France, Italy, Japan, Sweden, Turkey, Germany and the United States which were recently published in the Fifty Year Anniversary Volume of Boundary Layer Research, are the contributions of two Lewis engineers --- Simon Ostrach and Clarence B. Cohen of Supersonic Propulsion Division.

This volume does not represent an historical survey - to the contrary, its main object is to bring new facts of special interest from a field of research which is still growing with respect to applications in Aeronautics and other fields of engineering.

Mr. Ostrach's paper is titled "On The Flow, Heat Transfer, And Stability Of Viscous Fluids Subject To Body Forces And Heated From Below In Vertical Channels." Mr. Cohen's paper is co-authored with Mr. L. Crocco and titled, "Compressible Laminar Boundary Layer With Heat Transfer and Pressure Gradient."

Congratulations, gentlemen!

SEE? IT DOESN'T HURT.

There were 573 Salk anti-polio vaccine shots administered last week, and not an "ouch" in the bunch. Shown in action are l to r: Dr. George Csanad, Armetta Godfroy, Rosemary Troughton, Carolyn Potts and Dr. Richard P. Bell.

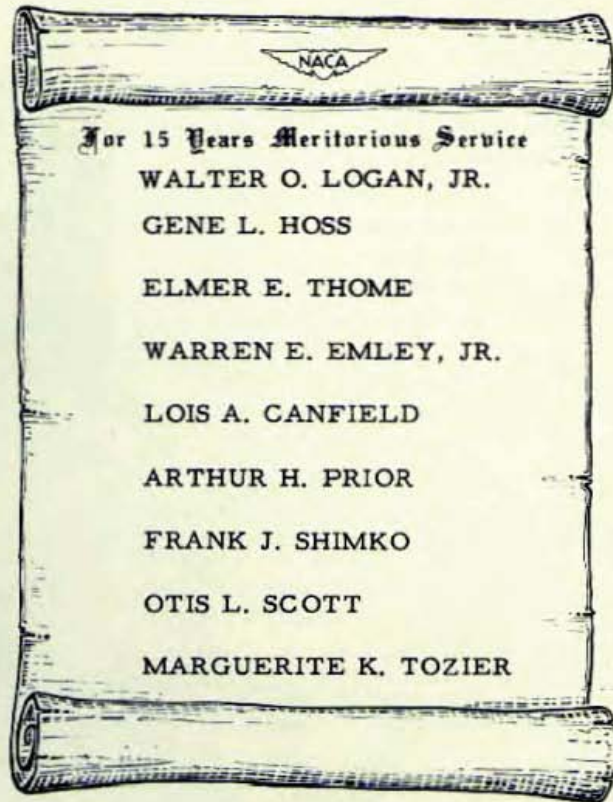


OSTRACH, MIRELS SPEAK IN GERMANY

Drs. Simon Ostrach and Harold Mirels will present technical papers to the International Union of Theoretical and Applied Mechanics symposium at Freiburg, Germany on August 26 to 29. Leading scientists from 17 nations will participate in this meeting.

Ostrach, chief of the Applied Mechanics Branch, Propulsion Aerodynamics Division, will discuss "Internal Viscous Flows with Body Forces." Mirels, Aerodynamics Research Engineer will present a discussion of "Wall Boundary Layer Behind a Moving Shock Wave."

While in Europe, Ostrach and Mirels will meet with the engineering faculty of the University of Rome, and will attend the Sixth Anglo-American Aeronautical Conference in London from September 1 to 15.



ORBIT, an official publication of the Lewis Research Center, National Aeronautics and Space Administration Cleveland 35, Ohio, is published bi-weekly in the interest of Lewis employees. Send contributions to the Editor, 258 ERB, telephone 3284. Deadline: Thursday after pay day.

Editor.....Marjorie Hyre

Reporters.....NASA Employees

Ostrach on science education panel



Dr. Simon Ostrach, Chief of Fluid Physics Branch, will participate with other noted scientists and engineers in the 50th Anniversary College of Engineering Conference at Marquette University, May 20-22.

The program, "The Education of the Scientist in a Free Society", includes four main speakers: Dr. Edward Teller, University of California; Senator Paul Douglas, Illinois; Rev. Gustave Weigel, Woodstock College; and Dr. Frederic Lindvall, Caltech.

Following each major address Dr. Ostrach will meet with 29 other invited scholars, scientists, and the guest speakers to evaluate and discuss the problems presented. As a member of a four-man panel, Dr. Ostrach will participate in summing up the information given in all the papers in order to present a complete picture of the problems and possible solutions of educational needs in the scientific and engineering fields.

An Idea Becomes a Reality

What started as an idea of Bob Graham's two years ago, will become a reality on September 25.

The idea -- to discuss freedom, values, and peace as they relate to science, philosophy, and theology.

The result -- a convocation at Baldwin-Wallace College next Sunday, entitled "Conversations About the Ethical Use of Knowledge."

Some of the participating Lewis personnel are Willis Braun, Robert Graham, Robert Hendricks, Vearl Huff, Ted Olson, Simon Ostrach. Leading the seminar on Space technology will be Dr. Hugh L. Dryden.

If you would like to register for one of the nine seminars, call Bob Graham (6141) today or register at the college before 3 p.m. Sunday.