

# The Village Crier



national accelerator laboratory

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## J. R. SANFORD REPORTS ON RECENT ECFA MEETING

*(Dr. Edwin L. Goldwasser, Associate Director of NAL, and Dr. James R. Sanford, Head of the NAL Experimental Facilities Section, recently attended a meeting of the European Committee for Future Accelerators held at Tirrenia, Pisa, Italy. Dr. Sanford has written the following report on the meeting for THE VILLAGE CRIER.)*

An important meeting for European high energy physicists was recently held in Italy. The builders of the 300 GeV accelerator at CERN met with potential users of the facility and discussed the design and utilization of the accelerator and its experimental areas. This meeting was arranged by the European Committee for Future Accelerators (ECFA) and was attended by nearly 150 physicists representing many of the experimental groups in Europe. The ECFA group asked Drs. R. R. Wilson, E. L. Goldwasser and J. R. Sanford to attend the meeting and talk about the NAL accelerator, research program and experimental areas.



The meetings were held at Tirrenia near Pisa on the Edwin L. Goldwasser 13th to the 18th of September. The meeting began with a James R. Sanford description of the accelerator design given by J. B. Adams, the Director of the CERN II Laboratory. He outlined the major design features of their project. It is to be a separated function accelerator similar to NAL with a radius of 1.1 km. (The NAL main ring is 1 km in radius.) The injector will be the present CERN proton synchrotron operating at about 10 GeV. The accelerator will be constructed inside a tunnel dug into the rock at a depth of 50 meters on a new site adjacent to the present Laboratory. It is hoped that the accelerator will operate at 200 GeV in 1976 and at higher energy by 1978.

The initial use of the CERN accelerator will occur by bringing the proton beam into the recently completed West Hall. This experimental area was designed for use with the existing 25 GeV accelerator, but with the addition of dense shielding will be suitable for 200 GeV experimentation.

The West Hall contains extensive space for the installation of secondary beams and electronic experiments. In addition two large detector facilities are being constructed at the end of the building. These are the 3.7 m liquid hydrogen bubble chamber (BEBC) and the Omega project - an electronic detector inside a large magnet. Both of these detectors were described at the meeting and it was discussed how to use them at energies higher than 25 GeV.

Several papers were delivered by CERN physicists describing the possible use of the West Hall, and its limitations. Proposals were made to modify the accelerator design to make it possible to use the West Hall at energies considerably higher than 200 GeV. Since certain decisions must be taken on the accelerator design in the next month, these proposed changes were debated extensively at the meeting. The discussions were very reminiscent of the arguments that went on at the previous NAL summer studies.

The study group then heard about the NAL plans. Since Dr. Wilson was unable to attend, Ned Goldwasser described the present status of the NAL accelerator, its problems and its possibilities. He also included a brief description of the plans for the early experimental program. Jim Sanford described the design of the experimental areas, and the properties of the secondary beams. These papers helped to form a background for the final topic of the conference, the design of the major experimental area called North Area for the CERN accele-

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## SANFORD REPORTS ON RECENT ECFA MEETING (CONTINUED FROM PAGE 1)

rator. This is the place where the highest energy beams will be available when and if the accelerator goes to 400-500 GeV.

The European physicists were challenged to consider the possible design of the new area. Over the next three years the plans must be made for that region, and the design work will begin next year.

The meeting was held in the conference center of the village of Tirrenia. This is a resort on the Mediterranean about 20 Km from Pisa. Although the meetings were held in this delightful place, the weather was cold and few of the participants were able to enjoy swimming. As a result the sessions went on from 8:30 in the morning until 7:30 at night. In the evening the choral society, Società Corale Pisana, held a special concert in the Pisa Cathedral. It was a memorable occasion and ended the conference in a very agreeable manner.

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## TIAA-CREF OPTIONS ANNOUNCED

NAL employees are again reminded by Charles F. Marofske, Personnel Manager, that during the month of October changes in allocation between TIAA and CREF may be made. By action of the URA Board of Trustees, NAL employees may now elect to apply up to 100% of total premium contributions to CREF, the variable annuity portion of the retirement plan where premiums are invested in a common stock portfolio. Previously, the CREF allocation was limited to 75%, the balance of premiums paid being invested in fixed obligations such as bonds and mortgages under the TIAA plan. Purpose of the change by the URA Board is to allow individuals greater flexibility in retirement planning. The change is not to be construed as a recommendation.

Questions concerning the new option and requests to exercise the option should be directed to Ralph Wagner, Ext. 324.

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## COMMISSIONER DOUB VISITS NAL

A recent visitor to NAL was Mr. William O. Doub, the newest commissioner of the U. S. Atomic Energy Commission. He succeeds Theos J. Thompson who was killed in an airplane crash on November 25, 1970. Commissioner Doub will serve a five-year term expiring June 30, 1976.



*William O. Doub*

Mr. Doub was sworn into office on the same day that James R. Schlesinger became the new Chairman of the Atomic Energy Commission, succeeding Glenn T. Seaborg who returned to his Professorship at the University of California at Berkeley after ten years as head of the A.E.C.

Mr. Doub brings to the Commission a record of active leadership in the areas of state and national public utilities policies. He was recently elected president of the Great Lakes Conference of Public Utilities Commissioners. His broad interest in public service includes work with the Metropolitan Area Transit Commission and the recent appointment by President Nixon to the Air Quality Advisory Board.

Commissioner Doub completed his undergraduate work at Washington and Jefferson College in 1953; he received his law degree from the University of Maryland. He was admitted to practice in Maryland and for the past ten years has been in general practice in Baltimore emphasizing corporate and trial law, trusts, estates and municipal bond matters.

Mr. Doub visited the Midwest to become familiar with the operation of A.E.C. facilities such as those at Argonne National Laboratory and NAL. He was accompanied by W. B. McCool, A.E.C. Secretary, Marty Domagala, Doub's assistant, and Will Kriegsman, A.E.C. consultant.

Their tour included lunch with the staff of the A.E.C. office and NAL officials at NAL, a tour of the construction area, and a review of current progress and plans.

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## PLAN VISITOR FACILITIES AT NAL

As the time approaches when experiments using high energy particles at NAL may begin, more and more visiting experimentalists are coming to the Laboratory to work on design, assembly or installation of their experimental equipment. These visitors require office and laboratory space as well as living accommodations for varying periods of time. They need access to stockrooms and other Laboratory services. The Laboratory has established a Visitor's Office to assist visitors in these aspects of their stay at the Laboratory. Bernie Lensmeyer has left management of the cafeteria, and he and Cynthia Sazama operate this new office.

The new manager of Lodging and Food Services is Salvatore R. Cuomo. He comes to NAL from Pontiac, Michigan, where he was assistant manager of three cafeterias and dining rooms of the General Motors Corporation. Mr. Cuomo is a 1959 graduate of Michigan State University in hotel, restaurant and institutional management. In addition to positions in Kansas City, Oklahoma, and Detroit, he was assistant manager of the Argonne National Laboratory's Lodging and Food Services from 1961 to 1963. At Argonne, Cuomo was associated with John R. Horton, Argonne Manager, who has been at NAL on a part-time consultant basis since July of this year.

"Old-timers" who have been on the site for 3-4 years recall that late in 1968 the nearest eating place was several miles away. A "crash" program was instituted by NAL to provide at least minimum eating accommodations on site. By means of roughly remodeled buildings, modern convenience foods, and disposable dishes and utensils, hot meals quickly became a reality.

Lodging and Food Services is now moving ahead to provide more durable facilities for NAL employees and visitors in the Village Cafeteria. Some redecorating, with new draperies and a lowered ceiling, followed rearrangement of the rooms; an after-hours corner with vending machine service is now available for night shift and weekend customers. Cafeteria attendants have donned new bright red polyester uniforms. A dishwashing machine will be installed shortly, and service will then shift from plastic plates and utensils to a more permanent style of china and silver.

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## FIRST FILM FESTIVAL NIGHT, FRIDAY, NOVEMBER 5TH

Plans were announced this week for the first "Film Festival" night at NAL, to be held Friday, November 5th. The event will begin at 6:30 p.m. in the cafeteria with a smorgasbord supper that will include wine, a dessert table and coffee.

The main feature of the evening will be the showing of the movie "Major Barbara" in the Village Barn, at 8 p.m. Starring Rex Harrison, Wendy Hiller, Robert Morley, Deborah Kerr and Dame Sybil Thorndike, this great classical satiric comedy by George Bernard Shaw was filmed in England in 1941. It was directed by Gabriel Pascal; dialogue, scenario and connecting sequences were all written by the great Mr. Shaw himself. The plot is concerned with the clashes between poverty-hating munitions manufacturer, Mr. Undershaft, and his pacifist daughter, Barbara, a member of the Salvation Army. A New York Times critic has said of the film, "This screen version probably does better by the play than was ever done by it on the stage, even with Mr. Shaw cracking the whip." The audience will be given an opportunity to express preference for future films in what is hoped will be a continuing series for NAL families and visitors.

Because seating in the cafeteria is limited, those wishing to attend the smorgasbord supper must buy tickets in advance, or make reservations by 5 p.m. Tuesday, November 3, with Janice Roberts or Fran Pisarek, 33 Shabbona, Ext. 560. Supper tickets are \$3.00 per person. Tickets for the movie may be purchased in advance at 33 Shabbona or at the door, at \$1.00 per person. Visitors, employees and their families are invited to attend either or both events.

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...L.to R. Mae Riggs, John Horton, and Sal Cuomo at new check-out counter in NAL Cafeteria...

Photo by Tim Fielding, NAL

COSTUME CAPERS DANCE ON SATURDAY, OCTOBER 23RD.

The annual Halloween costume party for NAL employees will be held Saturday, October 23rd, from 8 p.m. to midnight in the Village Barn. A band will play for dancing and there will be a cash bar. Prizes will be awarded for costumes in the following categories: best couple, best male, best female, and most original.

For further information call Jim Schluchter, chairman of the event, Ext. 728.

NALWO FALL TEA TO BE HELD WEDNESDAY, OCTOBER 20

All NAL wives are invited to the first NALWO tea of the year, sponsored by the NAL Women's Organization to be held Wednesday, October 20, at 1:30 p.m. in the lower level of the Village Barn. Dr. James Walker will speak to the group on "Symmetry and Structure in Nature".

Wives of visiting experimentalists are cordially invited to attend the event and all guests are urged to bring a friend who might wish to learn about the Laboratory. For further information call Ext. 560 in the Village.

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SCUBA DIVING, ANYONE?

Bill Beckley would like to form a Scuba Diving Club at NAL. Activities would include lessons leading to certification, group diving, and other related activities. If you are interested, please get in touch with him at Ext. 413.

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CO-OP PLAYGROUP NOW OPEN AT WHITE FARM

There are still openings for more pre-school age children in the playgroup recently started by NALWO at the White Farm on Eola Road on the NAL site. The group meets Tuesday, Wednesday and Thursday mornings from 8:30 a.m. to 11:00 a.m. under the supervision of parents of the children.

The group operates as a cooperative and was established to meet a need for social opportunities for children of this age group. A flexible program is planned, based on individual needs.

All NAL families and visiting families are cordially invited to participate. For further information call Mrs. Ann Gordon, 393-9144. Mrs. Helga Biggs is Chairman of the group.

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SCIENCE YEAR FEATURES NAL STORY: NAL families with school age children may be interested in the forthcoming 1972 issue of SCIENCE YEAR, the science annual published by World Book encyclopedia. The 1972 edition contains a detailed description and several colored pictures of the NAL accelerator system and the purpose and mission of the Laboratory, in addition to many other articles on current science. A copy is available for inspection in the NAL Library.

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CLASSIFIED ADS

FOR SALE-'61 Comet! Engine-Exc., Body-Good, Gen. fair overall-Make an offer-P. Arnold, DUSAF 879-2900, X296.

FOR SALE-'63 Corvair Conv., Bad condition; Cheap. Call Frank Cole, Ext. 724.

FOR SALE-Starck Baby Grand Piano-\$200. Frank Hammelman, Box 351, Yorkville. Call 553-7295.

FOR SALE- Magic Chef 36" gas range, 2 yrs. old. "Burner with a Brain", grill in ctr. becomes 5th burner. Min. timer & oven timer turn off automatically. Plus storage area. \$150. Call Ken Fleischer, 584-2977.

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