

The Village Courier



national accelerator laboratory

Operated by Universities Research Association Inc.
Under Contract with the United States Atomic Energy Commission

Vol. 6 No. 9

March 7, 1974

B. LEE HEADS NAL THEORY GROUP



...NAL theoretical physicists in Village offices: (L-R) A. Pagnamenta, B. W. Lee, Mary Gaillard, S. Jackson, R. Savit, A. Sanda, S. Joglekar, J. Bronzan, J. Bartels...

The appointment of Benjamin W. Lee as head of the Theoretical Physics Group at NAL marks one step in the plan to strengthen that group to assume a major role at the Laboratory. "It is a sign of evolution of the Laboratory," says Dr. Lee. "Some of the experiments have reached a second generation; they have finished their 'survey' period; they are ready to go forward, frequently seeking ideas from a good, versatile theory group."

Dr. Lee comes to NAL from the State University of New York at Stony Brook. For 15 years he has worked at such places as the Princeton Institute for Advanced Study, the University of Pennsylvania, and Cal Tech, and has been associated with major high energy physics institutions and laboratories in the U.S. and in Europe. He and his wife and their two children live in Glen Ellyn.

NAL's Theoretical Physics group currently consists of Dr. Lee and six other physicists. They are Henry D.I. Abarbanel, Martin B. Einhorn, Stephen Ellis, Shirley Jackson, Emmanuel Paschos, Anthony Sanda, and Robert Savit. Five visiting physicists are also part of the Theory Group: Jochen Bartels (from the University of Hamburg); John B. Bronzan, Rutgers University; Mary K. Gaillard, CERN; Satish Joglekar, Stony Brook; and Alan R. White, CERN. The group is relatively young, but its members are steeped in the most current knowledge and thinking about elementary particle physics. They may be specialists in one of several aspects of physics. The structure of the group remains flexible and open-ended, allowing for further build-up as well as for short term visits from theorists with interests that would benefit from a stay at NAL and from others who may have some special ideas which they wish to inject into the NAL research program.

This intellectual powerhouse interfaces with NAL activity in several ways. Many experiments in high energy physics test postulates or hypotheses which have been advanced in the high energy physics community by "theorists." Such theories often pique the interests of "experimenters" who then devise ways to test them. And progress comes from this interaction: experimental results → theory → more experiments → advanced theory → further experiments. Each element advances as a result of the activity of the other element.

At NAL, where scientists are exploring the outer edge of what is known in high energy

(Continued on Page 2)

B. LEE HEADS NAL THEORY GROUP (continued)

physics and are peering into depths never before explored, the Theoretical Physics group will frequently be called on to chart the course for the voyage. Theoretical Physics generally does not analyze experimental data. Rather, it guides the thinking of experimenters, pointing out to them the most important aspects of their results, and indicating interesting new directions to probe.

Theorists visit experiments frequently, and become sounding boards, answering questions, prodding thinking. Fundamental to this interaction is an active program of joint seminars arranged both by experimenters and theorists. At such seminars exchanges are lively and fruitful. These seminars attract other outside theorists who bring their own stimulating insights.

"But most important of all," says Dr. Lee, "we theorists must act as good examples. We must contribute to intellectual leadership. And we must help with long range planning so that the Laboratory will always be in a pioneering position. The present research program is the result of that kind of planning, and we must continue."

* * * * *



...Dr. Lee and Theory assistants
V. Caffey (L), S. Rittierodt...

(Photo by Tim Fielding, NAL)

EMPLOYEES' LECTURE SERIES

"The NAL Accelerator -- How it Works"

NAL Auditorium - 11:00 a.m., Friday, March 8, 1974

George Biallas will speak on "Water Systems"

(A video re-run of this lecture will be given in the Cross Gallery Conference Room on Wed., March 13, 12 noon.)



THE INTERNATIONAL FILM SOCIETY PRESENTS

BLACK ORPHEUS

Considered one of the most beautiful films ever made, **BLACK ORPHEUS** retells the legend of Orpheus and Eurydice in a modern setting. In the Black section of Rio de Janeiro, Orpheus becomes a street-car conductor and Eurydice is a country girl fleeing from a man sworn to kill her. **BLACK ORPHEUS** is enhanced by some of the most magnificent music and color photography every put on film.

Fills the ears and eyes . . . it is the music, the movement, the storm of color.

New York Times

FRIDAY, MARCH 8 • NAL AUDITORIUM • 8:00 PM • \$1.

SUPPORT SERVICES LIFT TRUCK OPERATORS COMPLETE COURSE



..L. Rodriguez, A.Villa, R. Bermel, placing carton of material on truck for delivery...



..G. Allan, C. King, D. Seifert, R. Zych, R. Payne, A. Streccius at lift truck operators course...

Recently, 26 employees of NAL's Support Services group completed a training course for employees who sometimes operate lift trucks. The class, given under the leadership of the NAL Safety Department, included both employees of long standing, as well as newer employees. Completing the course gives these employees the requisite skill to operate a lift truck safely and also the opportunity to become licensed operators.

The course has several objectives, according to Art Streccius of the Safety Department. An operator's skill improves when he becomes better acquainted with his machine. The job then becomes easier and safer. Both the Laboratory and the people benefit when time is not lost through accidents, and this happens when the person running the lift truck knows and practices good rules of operation and safety."

A film, The Color of Danger, introduced the first of four sessions in the course. A final written exam and a performance test concluded the instruction. The training is available for all people in the Laboratory who operate lift trucks. Three classes are now being conducted in the Magnet Facility. If you are interested, contact Art Streccius, Ext. 3580.



..G. Allan (L) receives certificate from R. Lewandowski upon completion of course...

* * * * *

NAL FAMILIES IN LOCAL THEATRE PRODUCTIONS

Dan Moline, NAL Accelerator Division (left in photo), plays a tough reporter (McCue of the City Press) in the comedy, "Front Page," playing at the College of DuPage, March 6 through 9 at 8:15 p.m., in the Convocation Center, Building M. Tickets are \$1.50, free to anyone under 12 or over 65. For further information, call Dan at Ext. 3037.

- - -

Two NAL couples are working on the production of "Colette," a play to run at the Bonaparte community theatre, northwest corner of Park Blvd. and Butterfield Rd., March 15-17; 22-24; 29-30. Stan Bristol (Physics Department) is sound chairman of the play; Betty Bristol, co-chairman of costumes. Harold Hann (Business Office) is set designer and Dodie Hann is a member of the cast. Reservations are suggested; call 469-8938. All seats are \$2.50. Friday and Saturday performances are at 8:30 p.m.; Sunday, 7:30. For further information call Stan Bristol, Ext. 3597.

* * * * *



PROTONS DISPLAY WINNING POWER

After five years of pursuing, the NAL Protons basketball team was crowned "No. 1" in the Naperville Y B League on February 28.

Their opponents, the Baird & Warner team, came out with revenge in mind having suffered their only defeat of the season at the hands of the NAL team in a previous match. Crashing the backboards the whole game, Baird and Warner managed to squeeze out a 56-55 lead with but 11 seconds left on the clock. Following the play designed by Coach Sample, the Protons took the floor. The ball was inbounded by Tyrone Thomas to Roy Justice who went the full length of the court, got open, and popped a 15-footer from the left side, giving the Protons a 57-56 lead with three seconds left in the game. On the following play, their opponents attempted to go deep but got intercepted on a heads-up play by Bobby McNeal who somehow managed to get fouled in the process. Sinking one of his two free throws gave the Protons a 58-56 lead with two seconds left.

High point men for the night were Roy Justice, 16; Bobby McNeal, 13; and Tyrone Thomas, 12. The final game of the season is Thursday, March 8 at 8:30 p.m. Spectators are welcome at the game -- the Protons Soar in '74.

NALREC'S

ST. PAT'S DANCE

VILLAGE BARN - 8:30 p.m., Saturday, March 16

Everyone is invited -- See you there

CLASSIFIED ADS

- FOR SALE - 1974 Chevrolet Blazer, auto., PS, PB, Cheyenne interior, 4 wheel drive, new tires. \$3200. LaDaune, Ext. 3555 or 851-6116 after 5:30 p.m.
- FOR SALE - 1969 Honda CT90, 90 cc Motorcycle w/car carrier, 3,400 miles, excl. cond. \$260. Don Mendenhall, Ext. 3724 or 896-9308.
- FOR SALE - 1971 Dodge Dart, std. 6, radio, new tires, 43,000 miles, excel. cond. \$1500. Also records, non-technical books. George, Ext. 3204.
- FOR SALE - Belted tires, less than 1,000 mi. wear. Two ea. sizes A78-13, C78-13. \$20. each. Fred Messing, Ext. 3369 or 3374.
- WANTED - - Car Pool between Elgin & Central Lab Bldg., 5 days, 8:30-5 shift. Call 840-3640.
- WANTED - - 10 to 20 hp Outboard Motor. Bill Beckley, Ext. 3428 or 892-6326.
- WANTED - - General Motors Infant Love Seat. R. Brown, 393-1788.
- WANTED - - Male to share 2-bedrm. apt. on west side Aurora. Steve Bastian, Ext. 3366 or 892-1767.
- FOR RENT - 3 Horse Barn, 2 corrals & riding trails. \$25/horse. Jim or Wal, Ext. 3145 or 393-1837.
- FOR SALE - Matching sofa & chair, good shape, cushions could use covers. \$35 for both. G. Vlies, Ext. 3567 or 859-1377 after 5:30 p.m.
- FOR SALE - Upright freezer, 10 cu.ft., 3 grille-type shelves, pullout storage basket on bottom. Juice shelves in door, inside light, holds 400 lbs. \$75. B. Williams, 629-0573.
- FOR SALE - Humidifier "Vapormaster," like new, 1 gal. storage cap., \$5. B. Boatman, Ext. 3627, 3054.
- FOR SALE - Color Bar/Dot/Crosshatch Generator, RCA model, WR-64A, all new parts, rebuilt, excl. cond. \$75. Mark, Ext. 3447.
- FOR SALE - Owners Workshop Manual, Mazda R100 or RX3, 1970-73, \$8. Steve Velen, Ext. 3165.
- FOUND IN THE VILLAGE - Ski equipment. Call Barb Schluchter, Ext. 3674, to identify.
- GIVE AWAY - Double hideaway bed w/mattress; shows wear. Contact Rene Donaldson, Ext. 3278.
- GIVE AWAY - One Persian cat, 8 mo. old. R. Parry, Ext. 3728 or 892-8346.
- LOST - - - On Feb. 13, woman's beige, cable knit cardigan w/brown buttons. Vickie Caffey, Ext. 3750