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NUCLEAR SCIENCE DIVISION NEWSLETTER

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Vol. 4, No. 7 July, August 1979

Associate Director: Joseph Cerny

Editor: Jeannette Mahoney

Report from Joseph Cerny

George Rogosa has now retired from DOE, but he is continuing to serve on a part-time basis until a successor is appointed. There will be even further change in the Division of Nuclear Physics office in Germantown, since, in addition to this replacement of Dr. Rogosa, two new staff positions will also be filled.

A major event this summer has been a special Long Range Planning meeting of NUSAC, held at Orleans, Mass., and attended by committee member Bernard Harvey and additionally by David Scott as a consultant. A report from committee chairman Professor Herman Feshbach is due in early September. We plan to hold a Division seminar in late September at which Harvey and Scott will discuss the results of this important meeting.

Dr. Howell Pugh will be leaving his position at NSF and joining our Division as Scientific Director of the Bevalac some time in October.

Going-Away Party for Scott

August 7 was the occasion for a farewell lunch held at the 88-Inch Cyclotron in honor of David Scott. The luncheon, attended by well over 90 persons, was a great success. It was catered jointly by the cafeteria and by La Familia Todaro (4 stars), and featured roast beef and ham, salads, garnishes, cake and jug wine. The table decorations of potted plants, averred to be cockscomb by R.-M. Larimer, were awarded to those lucky enough to find (and brave enough to search for) red circles glued to the underside of the tables by Don Fong.

Starting off the festivities, Kathleen Scott presented Carol Adams with a bouquet of flowers in appreciation of Carol's great skill in locating David for her over the years, and was in turn presented with a bouquet by Joe Cerny. Earl Hyde began the after-lunch speeches and was followed in turn by Joe Cerny, Roy Burton and, finally, the guest of honor.

Asimov Wins New Seaborg Award

The International Platform Association has established a Glenn Seaborg Award, to be presented annually to the person who has created the most public interest in science. The IPA, a professional, non-partisan organization of lecturers, founded in 1831 by Daniel Webster and Josiah Holbrook lists among its current officers Lowell Thomas, Glenn Seaborg, Eileen Hall, Dan Tyler Moore, Victor Borge, Art Linkletter, and Edna Sinclair. The first recipient of the award is Isaac Asimov for "an unparalleled record in stimulating broad scientific interest and inquiry" in his writing and lecturing.

New Wing Open

Norman Glendenning

The Theory group has moved to its new wing. A coffee machine is in operation and members of the Division are cordially invited to join us for coffee or tea after lunch (or other times). Monthly subscriptions are appreciated (see Miklos Gyulassy) or coffee can be purchased by the cup.

ARRIVALS AND DEPARTURES

ARRIVALS

At the 88-Inch Cyclotron:

Robert Legrain is here from Saclay to do experiments for the next year and a half at the 88 and the Bevatron and Dave Hendrie is now working half time at LBL on the same two accelerators. Mike Waters and Jim Wise are new operators on the machine, having transferred from Electrical Installation to Electrical Maintenance at 88, and Orland Jones and Bill Mirer from the Bevatron are working temporarily at 88 during the Bevatron shutdown.

In the Diamond/Stephens group:

Claire Schück from Orsay is here for one year, and Frank Stephens returns from leave on September 6, having spent 4 months in Orsay and 6 months in Copenhagen.

Lori Jackson has become a permanent staff member of the Goulding group and Paul Luke replaces Dick Cordi in the semi-conductor lab.

Herb Bolotin of the University of Melbourne arrives in September to spend 6 months working with the Moretto group, as does Alberto Pacheco from the University of Buenos Aires who will do his doctoral research for the next 3 or 4 years with the group.

Herbert Ruck has just joined the Theory group. He comes from Frankfurt and most recently from Duke University.

Eckhard Moeller of Freie Universität Berlin will spend a year here in the Heavy Ion program with Herb Steiner.

Summer students Leslie Rosenberg and Andrew Baden from USF will continue on with the Poskanzer/Gutbrod group.

VISITORS

Summer Visitors at the 88-Inch Cyclotron were:

Maria-Ester Ortiz, Angel Dacal and Arturo Menchaca-Rocha from the University of Mexico, Ludolf Kraus from the University of Strasbourg, and students Marie Avery, Mavis Driscoll, Linda Collamore and Sue Huang.

Maurizio Bini from the University of Florence arrived in July to spend 3 1/2 months working at the Cyclotron.

Visiting the Theory group at the end of August and beginning of September are Bishu Banerjee (Tata Institute), Roger Barrett (Surrey), John Vergados (Greece), Nag Nagarajan (Daresbury) and Oriol Bohigas (Orsay).

DEPARTURES

From the Diamond/Stephens group:

Claude Roulet has gone to Oak Ridge to spend the four remaining months of his leave before returning to CNRS, Orsay, Marty Neiman has gone back to the Niels Bohr Institute, but will return November 1 to begin work in the Accelerator Division, Clive Ellegaard has also returned to NBI, Dave Fossan to Stony Brook, and Pierre Aguer to Orsay.

Rick Schmidt from the Moretto group has gone to Texas A&M, where he will be an assistant professor in the Chemistry Department.

Leo Schifferle of the Goulding group retired August 31.

Alan Shotter has returned to the University of Edinburgh after a year with the Scott group at the 88-Inch Cyclotron.

Darleane Hoffman has returned to Los Alamos.

TRANSFERS

Richard Zink has transferred from Space Sciences to LBL.

Howard Wieman left 88 on September 1 to begin work at the Bevalac for GSI.

LEAVES

Herb Steiner will return the middle of September after spending the summer at DESY in Hamburg

Art Poskanzer left on August 1 to spend a year in Geneva.

REPORTS

LBL 8512 A Theoretical Investigation of Shell Effects in Deep Inelastic Collisions
L. G. Sobotka, G. J. Mathews, and L. G. Moretto

- LBL 8950 Three Lectures on Macroscopic Aspects of Nuclear Dynamics
W J. Swiatecki
- LBL 8972 On Barrier Penetration in Complete Fusion Systems
G. J. Mathews and L. G. Moretto
- LBL 8983 Target Residues from the Reaction of 8 GeV ^{20}Ne with ^{181}Ta and ^{197}Au
D. J. Morrissey, W. Loveland, M. de Saint Simon, and G. T. Seaborg
- LBL 9130 Lecture 1: Experimental Evidence for Collective and Thermal Features in Heavy Ion Reactions
Lecture 2: Equilibrium Statistical Treatment of Angular Momenta Associated with Collective Modes in Fission and Heavy Ion Reactions
Luciano G. Moretto
- LBL 9181 A Specialized, Multi-User Computer Facility for the High-Speed, Interactive Processing of Experimental Data
Creve C. Maples
- LBL 9212 Collective Properties of Odd-Mass Sb, I, Cs, and La Nuclei
D. B. Fossan
- LBL 9244 In Search of High Density Collective Phenomena in Nuclear Collision
M. Gyulassy
- LBL 9251 Mechanisms for Deuteron Production in Relativistic Nuclear Collisions
Joseph I. Kapusta
- LBL 9352 Negative Pion Production by 800 MeV/A C, Ne, and Ar Beams
I. Tanihata, S. Nagamiya, O. Chamberlain, M.-C. Lemaire, S. Schnetzer, G. Shapiro, and H. Steiner
- LBL 9353 Theoretical and Experimental Aspects of the Energy Loss of Relativistic Heavily Ionizing Particles
Steven P. Ahlen
- LBL 9418 Evidence for a Soft Nuclear-Matter Equation of State
Philip J. Seimens and Joseph I. Kapusta
- LBL 9468 A Comparison of Fragmentation Calculations Within Microscopic and Macroscopic Frameworks
D. J. Morrissey
- LBL 9493 Fragmentation of Relativistic Light Nuclei: Longitudinal and Transverse Momentum Distributions Data Tables
L. M. Anderson, Jr., O. Chamberlain, S. Nagamiya, S. Nissen-Meyer, D. Nygren, L. Schroeder, G. Shapiro and H. Steiner
- LBL 9531 Tensor Analyzing Powers in $^4\text{He}(d,d)^4\text{He}$ Elastic Scattering Between 17 and 45 MeV
E. J. Stephenson, H. E. Conzett, R. M. Larimer, B. T. Leemann, R. Roy and P. von Rossen
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