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Activities of ZGS People in the 1980's and 1990's

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The ZGS people went off in every direction: to universities, to other laboratories, to universities and laboratories in other countries, and to other occupations in the private sector or federal agencies. Some people even cycled around through one or more of the above and eventually wound up back at Argonne. As a good pupil of the David Manson school of weasel words, I recognize the need to insert a "to the best of my knowledge" disclaimer statement here. It became clear to me that I couldn't vouch for the accuracy of all of the information shown below when, to my surprise and delight, I found on the official registration list for this conference the names of two people I really, really, never expected to see again!

The picture shown as Figure 1 was taken on October 1, 1979, the day the ZGS shut down forever. Many of those shown were even then engaged in the sad task of dismantling the ZGS and clearing its buildings. Several years passed before Bill Bryan and Bob Pubentz were finally able to write off the last capital equipment item and balance the books.



Fig. 1. The ZGS staff gathered after the end of the final shift of operation.

MASTER

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Even prior to 1979, ZGS people had been going off to do other things. A whole tribe had left long before to become key players in the building of the National Accelerator Laboratory. Others had accompanied the 30-inch Bubble Chamber when it took up residence there, or went to run the 15-foot Bubble Chamber and its systems for experimenters like Ray Burnstein, Bryan Roe, and William Walker. In addition, many Fermilab programs included ex-ZGS experimenters and staff people. Figure 2 lists the people identified as employed at Fermilab at the time of the History of the ZGS Symposium held in September of 1979.

FERMILAB ROSTER
(CIRCA 1979)

Chas. O. Andrlé	Philip V. Livdahl
Winslow F. Baker	Richard Lundy
Chas. Bartelson	Finley Markley
Leon Beverly	Donald Mizicko
Armand J. Bianchi	Wayne W. Nestander
Richard L. Biwer	Arthur W. Neubauer
Kenneth R. Bourkland	Ronald Lee Norton
Del A. Burandt	Robert C. Oadt
Anne Burwell	Joseph G. Otavka
David F. Cosgrove	Frank H. Pearsall
Robert J. Ducar	John Pollack
Don Fearnley	Bob Pucci
Robert Ferry	Reid Kent Rihel
Phil Gavin	Fred Ritgarn
Anthony M. Glowacki	Carmen J. Rotolo
Tom Groves	Jan Ryk
Merle Haldemann	Robert E. Scherr
Willard Hanson	James R. Simanton
Norman F. Hill	Larry John Sobocki
Gary Hodge	Edward J. Steigmeyer
Jim Hoover	Lee C. Teng
Buck Hothan	Robert Charles Trendler
Richard Joseph Hunckler	Anthony Tummillio
Michael V. James	Age T. Visser
Richard J. Janes	Louis Voyvodic
Drasko D. Jovanovic	William Williams
Robert Kolar	Del M. Wilslef
Wm. Joseph LeClercq	Charles A. Zonick

Fig. 2. Fermilab roster (circa 1979).



Fig. 4. U-25 Magnet team prior to departure for Moscow on USAF C5A transport aircraft.

A look at organization charts of the Accelerator Research Facilities Division (ARF), starting in 1975 and going through to 1979, shows the changing direction of the division. By 1975 a fairly large solar energy activity was under way, and in 1976 the superconducting group appears. In 1978, ion beam fusion had been added, along with the start of a closing group. As shown in Fig. 5, on that fateful October day in 1979, a large closing group existed, ion beam fusion had become heavy ion fusion, solar energy had toddled off into the sunset (or more precisely to another part of Argonne), a FNAL pbar group was on the map, and an operations group for the Intense Pulsed Neutron Source (IPNS) was identified.

Although you could never tell it from any of the High Energy Physics Division's (HEP) organization charts (they all tended to look somewhat generic, like the example shown in Fig. 6), in fact, the HEP people had been very busy shifting their research.

A program led by Malcolm Derrick, Brian Musgrave and others recycled the 12-foot Bubble Chamber magnet into the centerpiece of the High Resolution Spectrometer detector used on PEP at SLAC. Just getting the 100-ton magnet

November, 1981

HIGH ENERGY PHYSICS DIVISION

Administrators

Robert E. Diebold
Brian Musgrave
Joanne S. Day

Physicists (Experimental)

Michael Arenton
David Ayres
Daniel E. Bender
Malcolm Derrick
William R. Ditzler
Thomas H. Fields
Enrique Fernandez
Stephen Gray
Ray T. Hagstrom
Lloyd G. Hyman
Kenichi Imai
Paul Kooijman
James S. Loos
Howard Ludwig
Edward May
Lawrence Nodulman
Lawrence Price
Hajime Shimizu
Harold Spinka
Robert Stanek
Koichi Toshioka
Thomas Trinko
David Underwood
Robert Wagner
Jeffrey Weiss
A. Barry Wicklund
Akihiko Yokosawa

Engineers and Applied Scientists

Kenneth Coover
John Dawson
Daniel A. Hill
Norman Hill
H. Bruce Phillips

Computer Scientists

James Schlereth
Barbara Pancake

Technical Staff

Ivars Ambats
Leonard Balka
B. Harvey Blair
Wilton J. Evans
William N. Haberichter
Donald J. Jankowski
Thomas Kasprzyk
Carl Klindworth
Robert Laird
Robert C. Miller
Ronald Rezmer
Joseph F. Sheppard
Eugene Walschon

Technical Hourly Personnel

Donald Emery
Robert S. Johnson
Lawrence Kocenko
Arthur M. Rask
Robert Taylor
Steve Zelipsky

Physicists (Theoretical)

Edmond L. Berger
David Callaway
Louis Clavelli
Porter Johnson
Daniel Jones
David J. Maloof
Dennis Sivers
Cristian Sorensen
Gerald H. Thomas
Nigel Wright

Fig. 6. High Energy Physics Division organization chart.

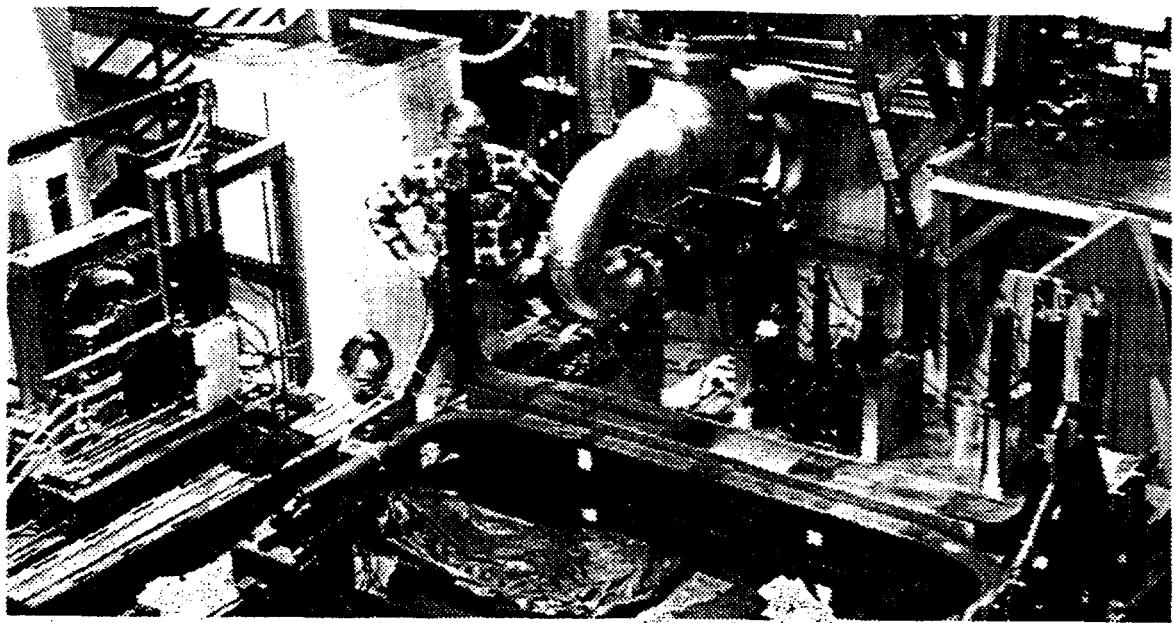


Fig. 8. E-704 polarized beamline apparatus.

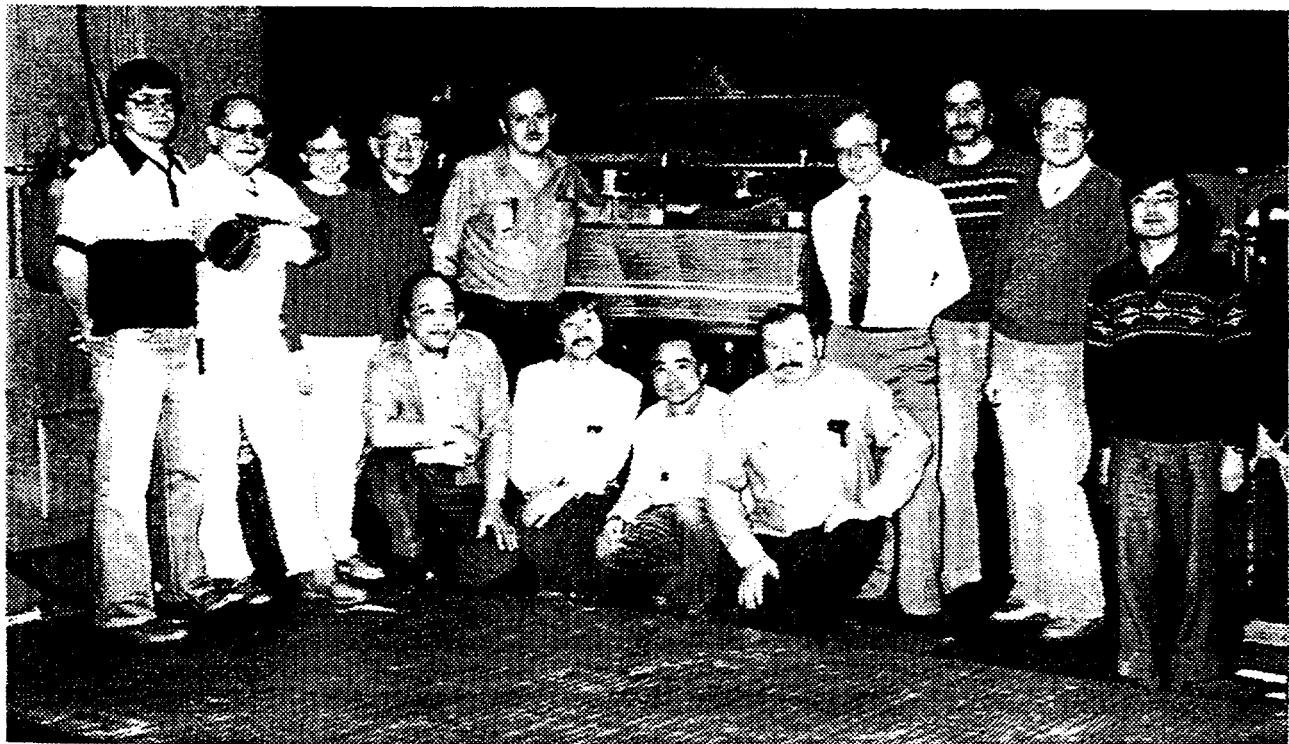


Fig. 9. The CDF group photographed with a calorimeter module.

Medical accelerators have been around for a long time - just ask Art Creer, who's been running them at the University of Chicago. But a whole new generation of medical accelerators have benefitted from the expertise of ex-ZGS people. Phil Livdahl and Al Moretti contributed to the development of the Loma Linda University Hospital accelerators. Ron Martin has been pursuing proton therapy, founding a new company, Acetek, with the help of grants from the National Cancer Institute, and drawing on the expertise of many ZGS people, Bob Wherle, Ken Menefee, and Bob Ward among them.



Fig. 11. Argonne contingent of the ZEUS collaboration.

Advanced accelerator research is currently being carried out in the High Energy Physics Division, where Jim Simpson has a group building the Argonne Wakefield Accelerator Facility.

The operations group called out in the 1979 ARF organization chart eventually turned into the IPNS Division. Its current complement of 68 people includes 22 former ZGS employees.

Many people went off to other national labs, DOE, and other Federal agencies to do all sorts of interesting things. Free electron laser research at Los Alamos. SSC research and development, the AGS and NSLS programs at Brookhaven, biomagnetism at MIT, and the B Factory project at SLAC are just a few of the activities of the people whose names appear in Figure 14. A quick look at the Fermilab telephone directory netted 70 recognizable names, some of whom may actually be the sons or daughters of ZGS people.

Some people have started their own businesses, as shown in Fig. 15.

What about people who went further afield? Some of them changed their lives very dramatically. Stuart Marcowicz and Pam Ogor became physicians, and a surprising number became farmers. Telecommunication has become infinitely better since about 10 high-energy physicists from Argonne joined Bell Labs. High-tech companies like Amoco, Motorola, DEC, Boeing and Northrup; pharmaceutical firms like Abbott and Searle; and utilities such as Commonwealth Edison, the Metropolitan Sanitary District and the Metropolitan Water Reclamation District all have ZGS'ers aboard.

Others have entered the environmental sciences world, doing work on alternative energy sources, waste and energy management, solar energy, ocean thermal research, environmental impact studies and other things too numerous to mention. Human resources, social services, the academic world, and all levels of management have drawn ZGS people.

From the information above, and also from the "brief statements" many of you supplied with your registration information, it is easy to see that the ZGS alumni went on to bigger and better things, proving that there was indeed "life after the ZGS." But I think we will all agree that the ZGS days were special and hold a never-to-be-forgotten place in our lives.

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