

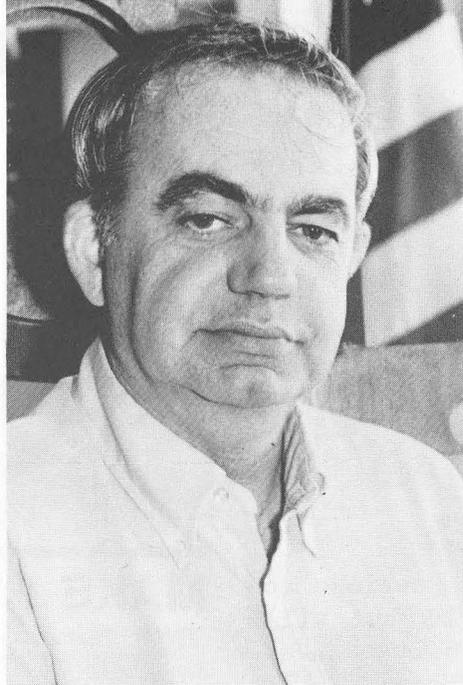
October 4, 1984

FERMI NATIONAL ACCELERATOR LABORATORY

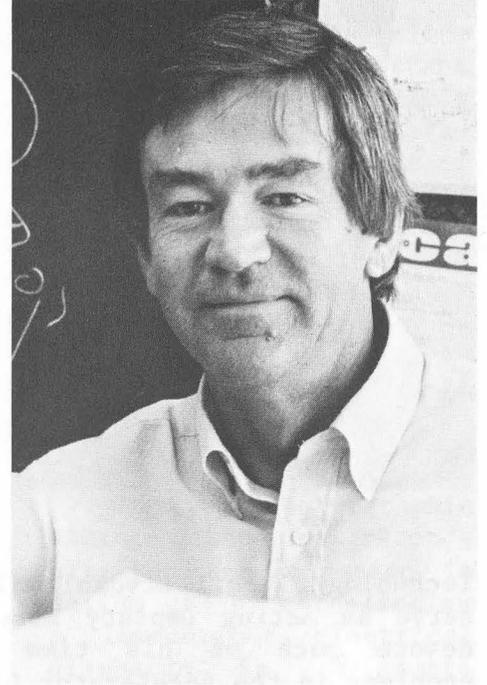
# REORGANIZATION STRENGTHENS TEV I AND II



*Bruce Chrisman*



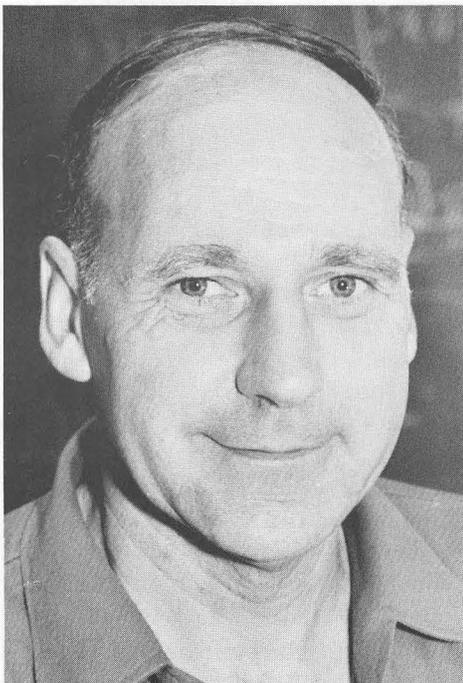
*Dick Lundy*



*Bj*

Since the primary goal of Fermilab is now to exploit TeV I and II and their associated detectors for physics, Director Leon Lederman announced a reorganization, effective October 1, to strengthen the Laboratory for this new period.

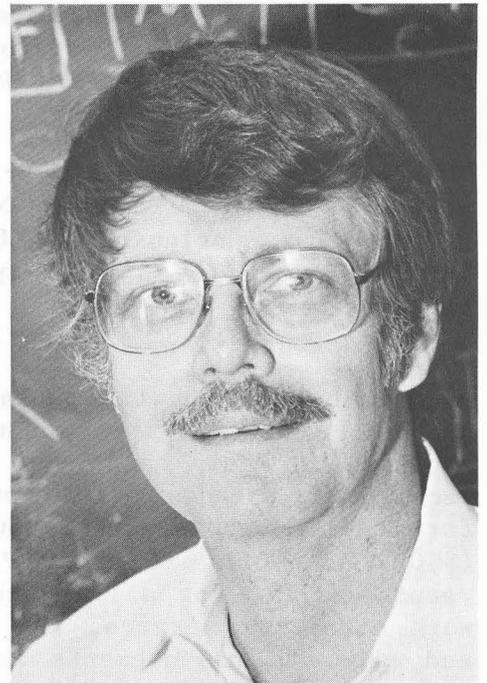
Three new Associate Directors have been named: James (Bj) Bjorken for Physics, Bruce Chrisman for Administration, and Dick Lundy for 



*Peter Koehler*

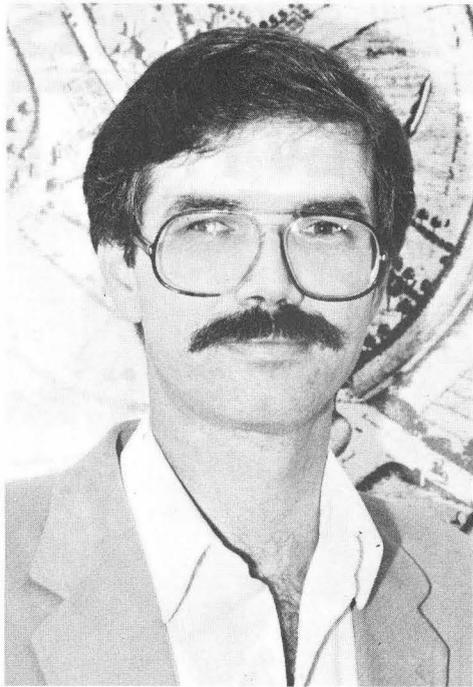


*Phil Livdahl*



*Tom Kirk*

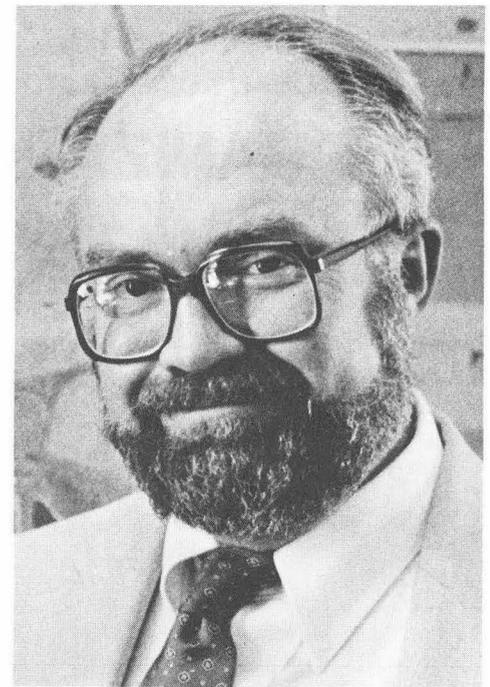
(cont'd. from pg. 1)



*Ken Stanfield*



*Drasko Jovanovic*



*Jim Finks*

Technology. Phil Livdahl will continue to serve as Acting Deputy Director but will devote much of his time to technical problems in the Accelerator Division.

Peter Koehler, formerly head of the Research Division, will join the Accelerator Division as Associate Division Head, responsible for providing support for the D0 project and the other (non-CDF) Main-Ring tunnel experiments in that division. Ken Stanfield, formerly Head of the Business Office, will take Peter's place as Head of the Research Division. Jim Finks has been appointed Business Manager.

Tom Kirk will succeed Drasko Jovanovic as Head of the Physics Department, in addition to continuing as Manager of the TeV II project. Tom's Deputy Head will be Dan Green.

Paul Mantsch will replace Dick Lundy as the head of the Technical Support section. Paul has been concentrating recently on the design of prototype magnets for the Superconducting Super Collider (SSC). In his new role, Paul will have responsibility for all conventional magnet work, drafting service, the machine shop, and magnetic measurements as well. Gene Fisk will head the continuing SSC magnet work.

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## MAKE IT TOUGH TO STEAL

There are over 300 thefts and losses reported to the Fermilab Security Department yearly. The items lost or stolen include small hand tools, power tools, materials, money from purses and coffee funds, and personal items from desks and office areas. Almost all of these items were left unsecured.

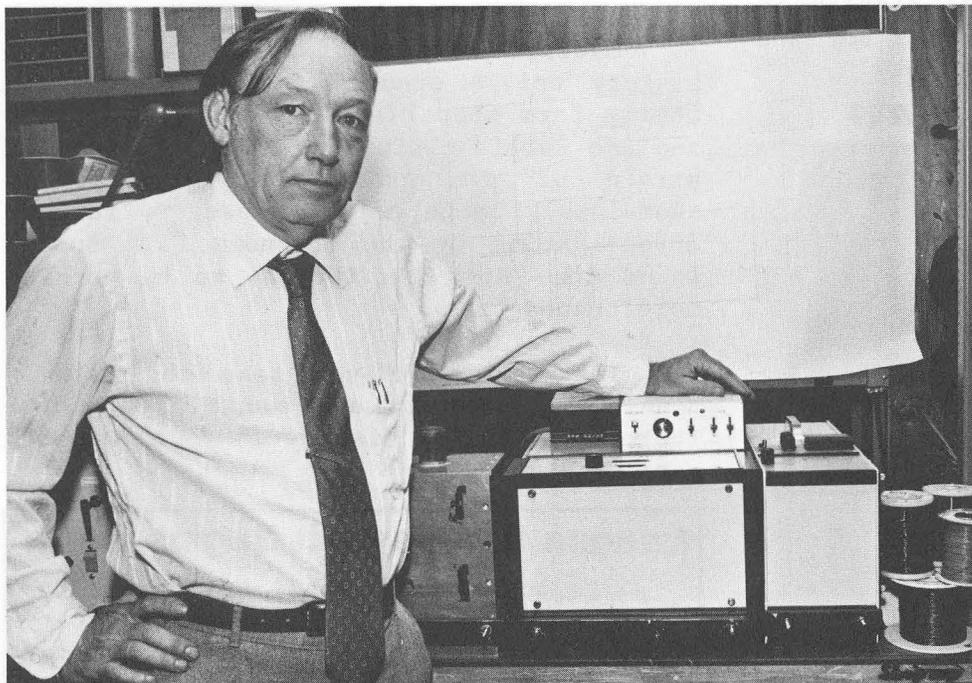
Most thefts could be prevented with the conscientious help of all employees and visiting scientists. Here are a few things we can do to help prevent thefts and losses:

- Secure all equipment in a locked storage cabinet or room.
- Have a good control system on keys issued to equipment cages and areas.
- Keep purses and wallets with you or locked in a drawer or cabinet.
- Don't carry excess cash.
- Always lock your parked vehicle.
- Large equipment and small tools should be marked with identifying information.
- Equipment and tools should be secured as much as possible when not in use.
- Don't leave keys or valuables out in a general area.

Records show that thefts occur at all times of the day and night; therefore, whenever you leave lock-up.

## WALKER'S NITROGEN DETECTOR WINS I-R 100 AWARD

A Spectrographic Nitrogen Detector developed at Fermilab by Ron Walker, who heads Fermilab's Central Helium Liquefier, has been named one of the outstanding technological developments of 1984 in the I-R 100 competition sponsored by **Research and Development Magazine**. The detector was created to improve reliability of the Liquefier's operation.

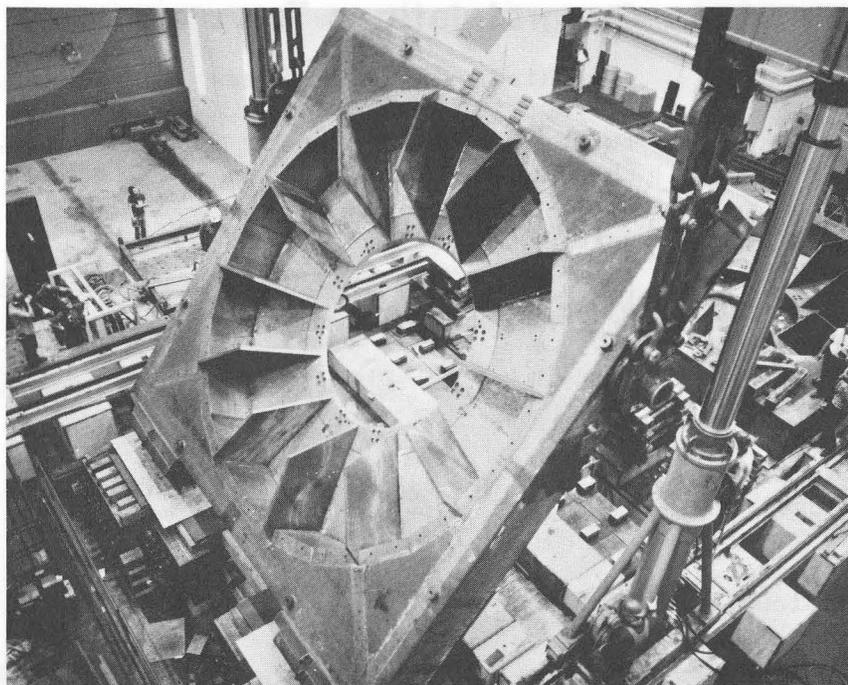


*Ron Walker and his Spectrographic Nitrogen Detector.*

The Central Helium Liquefier is an important component of Fermilab's superconducting accelerator. Some 5,000 liters of liquid helium are needed each hour to cool the magnets, and the helium must be free of the contamination frequently encountered in such large systems.

Ron's Spectrographic Nitrogen Detector records nitrogen contamination in helium gas by establishing a low-current electrical discharge in a sample cell. The light from the discharge is focused on the entrance slit of a high resolution monochromator. The monochromator is set to identify light from nitrogen and not from helium. A photomultiplier placed at the exit slit transmits a signal equal to the amount of nitrogen contamination present. Ron calls the detector "very sensitive, stable, and easy to operate and maintain."

"The Spectrographic Nitrogen Detector has been used with excellent results on water and hydrocarbon contamination, and undoubtedly can be used with many other gases," Ron states. This could be important in gas liquefaction plants, very critical manufacturing operations, and gas analysis in general, according to Ron.



*CDF milestone! Last week the assembly of the Collider Detector at Fermilab reached the first of what is expected to be a rapid series of milestones as the first of the magnet end walls was raised in the pit of the assembly building. This end wall weighs 230 tons.*

# LINAC NOT THE ONLY ANTIQUE MACHINE AT FERMILAB

by Rocky Kolb and Michael Turner

What's the second most popular tourist attraction in the greater Chicagoland area? Believe it or not, it's Fermilab's own Antique Farm Machinery display just inside the east entrance. The display is the pride and joy of former farm boy and

## *Fermilab Pitch Man*



*Leon Lederman (right) preparing his pitch for his next trip to Washington.*

present Lab director Colonel Leon Lederman. The Colonel often fondly reminisces about the old days growing up in a log cabin on the family farm using machinery similar to that in Fermilab's exhibit. In fact some of the machinery in the exhibit came from the Lederman family farm in Weston, Illinois, on the present Fermilab site. (For security reasons, the exact location of the Lederman family farmsite is a closely-guarded secret.) Security personnel have occasionally received reports of a mysterious silver-haired gentleman driving farm machinery around Fermilab fields in the wee hours of the morning.

The Lederman family has deep roots in the Illinois farm community. Leon's great-grandfather Cyrus Lederman was the second person to discover the mechanical reaper in

1834. Although McCormick was the first to patent the mechanical reaper, Cyrus Lederman actually had evidence of it in some unanalyzed data. "Close, but no cigar" has become the Lederman family motto.

Another interesting bit of farm history trivia occurred near the Lederman family farm when his neighbors Uriah Cline and Jeb Rubbia claimed to have discovered a strain of rye grass that grew to an anomalously large height; however, further investigation by the Illinois Farm Bureau found the "High-Rye Effect" to be nothing more than a hoax.

The next time you take the Batavia Road exit, stop in and tour the exhibit. There is a bit of history in your own back yard!

## **League II Volleyball Begins Soon**

League II volleyball will begin its winter season soon and is seeking interested players. If you would like to sign up, please contact B. MacKinnon, ext. 4790, or M. Moy, ext. 4060.

## **Congratulations To . . .**

Richie Kujath (Roads & Grounds) and Lily on the birth of their first kids. The twins arrived September 24, at 2 p.m. in the Buffalo Barn. Richie Jr. and Dickie each weighed approximately 3 pounds and were 1-1/2 feet tall.



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