

Calendar

Wednesday, Nov. 26
THERE WILL BE NO
DIRECTOR'S COFFEE
BREAK TODAY
THERE WILL BE NO
FERMILAB COLLOQUIUM
THIS WEEK

Thursday, Nov. 27
Happy Thanksgiving

Friday, Nov. 28
Day after Thanksgiving

[Click here](#) for NALCAL,
a weekly calendar with
links to additional
information.

Weather



Sunny
44°/24°

[Extended Forecast](#)
[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Wilson Hall Cafe

Wednesday, Nov. 26
- Portabello harvest grain
- Smart cuisine: Santa Fe
chicken quesadilla
- Turkey dinner
- Cuban panini
- Assorted sliced pizza

[Wilson Hall Cafe Menu](#)

Chez Leon

Feature

Grzegorz Deptuch wins early career award



PPD's Ray Yarema nominated Fermilab engineer
Grzegorz Deptuch for IEEE's Radiation
Instrumentation Early Career Award.

The IEEE Nuclear and Plasma Sciences
Society has awarded Grzegorz (Gregory)
Deptuch, senior engineer at Fermilab, its
Radiation Instrumentation Early Career Award.

Every two years, the society presents the
award and a \$1,500 prize to someone who
has made significant contributions to the fields
of radiation instrumentation and measurement
techniques for ionizing radiation within 10
years of earning their last degree.

Monolithic chips require fewer parts and are
cheaper to produce. Because the pixels are
smaller, they allow scientists to record the
location where particles passed through a
detector with greater accuracy.

"(Deptuch) is an extremely talented engineer,"
said Ray Yarema, the Fermilab engineer who
nominated him. When Yarema asked for
letters of recommendation for Deptuch, he
received double the amount needed.

"It's always a big pleasure to see that
someone recognizes your work and considers
it worth mentioning to others," Deptuch said.

Deptuch impressed his colleagues and
superiors with his development of ways to use
monolithic active pixel sensors – originally
developed for use in digital cameras – in high-
energy physics experiments.

"This is what I like the most: engineering
meeting physics," Deptuch said. "You work on

From the Technical Division

Enhancing world collaboration

*Giorgio Apollinari, head of the Technical
Division, wrote today's column.*

At the [last meeting](#) of the
International Committee
for Future Accelerators,
the newly appointed
CERN Director General
Rolf-Dieter Heuer gave
the summary talk. It
focused on enhancing
world collaboration. [His](#)
[talk](#), from which I

"borrowed" the title for my
column, focused on the
need to extend the same level of worldwide
collaboration that we know from high-energy
physics detectors and experiments to the
design, development and operation of
accelerator facilities.

The way to this goal, according to Heuer, is to
make use of worldwide competencies, ideas
and resources in global HEP endeavors, such
as a future lepton collider or a beyond-the-
LHC hadron collider, *and* in what previously
might have been considered regional
programs (such as XFEL, Project X or Super
B factories).

The common denominator that motivates
experimental physicists to share resources on
a detector is the ultimate goal of making
physics discoveries. Likewise, I think that the
primary motivation for a worldwide
collaboration of the accelerator design and
development community has to be the
participation in the integration, commissioning,
understanding and operation of new
accelerator facilities.

One of the major hurdles we face in the design
and construction of magnets and
superconducting cryomodules in the Technical
Division is the need to predict how these
components will interact with other elements
of an accelerator beamline. Such integration
problems, of course, are well known to
physicists who have worked on putting
together complex particle detectors such as
the ones at the LHC. In a world with few
dedicated accelerator facilities, understanding
the integration of accelerator elements by first-



Giorgio Apollinari

Wednesday, Nov. 26

Lunch

- Cheese fondue
- Marinated vegetable salad
- Mixed berry parfait

Thursday, Nov. 27

Dinner

- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.

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[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

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www.fnal.gov/today/

Send comments and suggestions to:

today@fnal.gov

the border and achieve practical results.”

Deptuch earned his master's degree in electrical engineering and his Ph.D. in electronics and physics from the University of Science and Technology AGH in Krakow, Poland, and a Ph.D. in electronics and physics from the Université Louis Pasteur in Strasbourg, France.

Many pixel sensors consist of two parts: a sensor and a readout chip. About a decade ago, during his Ph.D. research, Deptuch developed a way to integrate the two into a single monolithic structure.

“The game in high-energy physics is trying to look at smaller and smaller things,” Yarema said.

Deptuch received the award at the society's annual meeting held in Dresden, Germany. Deptuch's parents, who live in Krakow, Poland, attended the award luncheon.

-- *Kathryn Grim*

[In Brief](#)

Parking lot theft

Thefts of electronic devices from cars often occur in parking lots at large shopping centers and apartment complexes. Fermilab is not immune. A window in an employee's car was smashed and a navigation device stolen last Thursday.

Local police departments have noted a spike in thefts of such electronic devices from cars. Thieves target a vehicle because they see a device they value or they see the tell-tale signs that the vehicle contains such a device – perhaps hidden under a seat or in the glove box. Thieves look for the device's holder, the marks on the windshield left by the holder's suction cup or a patch of Velcro on the dash.

To prevent theft of your devices and valuables, take the proper precautions:

- Lock your car.
- Don't leave valuables visible, including shopping bags or purses.
- Don't leave holders for navigation devices visible.

Report any suspicious activity to security at x3414.

-- *Bill Flaherty, head of Fermilab Security*

hand participation is a major motivation for enhancing world collaboration.

Two collaboration meetings have the potential to plant the seeds for this type of worldwide involvement. Last week, Fermilab held a Project X collaboration meeting. In December, CERN will host the Superconducting Proton Linac collaboration meeting. Both projects with their ancillary accelerator front-end developments (High Intensity Neutrino Source and Linac4, respectively) aim at the acceleration of high-intensity beams with similar, but not identical, technologies.

The challenge in front of us is to build the relationships and mutual involvement in these projects that will allow us to share the integration lessons. Enhancing the world collaboration is the way to go.

[Safety Update](#)

ES&H weekly report, Nov. 25

This week's safety report, compiled by the Fermilab ES&H section, includes one injury, which was not reportable. We have now worked 21 days since the last recordable injury. Find the full report [here](#).

[Safety report archive](#)

[Announcements](#)

[Have a safe day!](#)

[Focus group invitations](#)

[Annual Enrollment through Dec. 10](#)

[No International Folk Dancing on Thanksgiving](#)

[Are you in the SPIRES HEPNames database?](#)

[Fidelity representative at Fermilab Dec. 3](#)

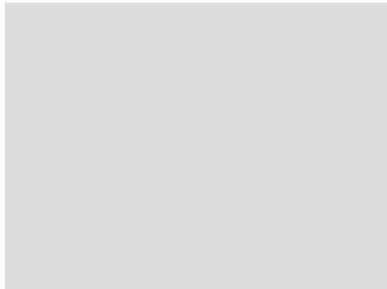
[Education Office Holiday Sale, Dec. 3 & 4](#)

[International Folk Dancing, Dec. 4](#)

[NALWO - Winter Holiday Tea, Dec. 5](#)

[FileMaker Pro 8.0 - Dec. 10](#)

[NALWO - Christkindlmarket Chicago, Dec. 13](#)



[The University of Chicago Tuition Remission Program deadline Dec. 17](#)

[Additional Activities](#)

[Submit an announcement](#)