

## DIGITAL PULSE PROCESSORS



Digital Pulse Processor, Shaping Amplifier, MCA and Power Supplies

### Features of the PX5:

- Compatible with all Amptek detectors & detectors from other manufacturers
- 80 MHz ADC
- Trapezoidal and CUSP shaping
- Reduced ballistic deficit
- High count rate capability & stability
- High throughput & pile-up rejection
- MCA with 8 k channels
- USB, RS232 & Ethernet interface
- Free software for instrument control, data acquisition, and analysis
- Free Software Developer's Kit (SDK)
- Oscilloscope mode

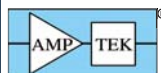


Size: 3.5 in. x 2.5 in.

### Features of the DP5:

- 80 MHz ADC
- Replaces both shaping amplifier and MCA
- Supports both reset and feedback preamplifiers of either polarity
- 16 SCAs
- Configurable for use with PMTs
- For OEM or custom laboratory use
- Highly configurable

OEM's #1 Choice



AMPTEK Inc.  
www.amptek.com

## news notes

**ESA-CERN handshake.** On 28 March, the European Space Agency (ESA) and CERN signed an agreement to foster collaborations in technology and research. Sergio Bertolucci, CERN director for research and computing, says the two agencies “are addressing the same set of questions”—ESA by looking at extremely large scales and CERN by looking at extremely small scales. As examples, he points to symmetries, gravitation, and the beginnings of the universe.

Areas of mutual interest include sophisticated simulations; handling big data; materials for applications in extreme conditions; and advances in microtechnologies, sensors, and detectors. The two organizations already collaborate. For instance, ESA uses CERN simulation software to test space-bound detector materials for radiation hardness. But such arrangements have been ad hoc, says Fabio Favata, who oversees the science program for the space agency. “Now the idea is to have a more coordinated approach.”



CERN

### The European Space Agency's

Jean-Jacques Dordain (left) and CERN's Rolf Heuer at the ceremony formalizing collaborations between the organizations they lead.

This year, ESA celebrates its half-century mark and CERN turns 60. Both were founded by the same vision, “to put Europe together with science,” says Bertolucci. “It's slightly embarrassing that we've never had a formal agreement.”

TF ■

## Recently on physics today online...

### ► News Picks

Every weekday PHYSICS TODAY's online team summarizes four of the most important and interesting science stories from the world's top media outlets. Look for News Picks on the magazine's homepage.



### ◀ Bookends

PHYSICS TODAY's Washington correspondent David Kramer interviews Daniel Clery (left) and Stephen Dean, whose respective books trace the origins of, and progress on, the quest to produce controlled nuclear fusion as an energy source.

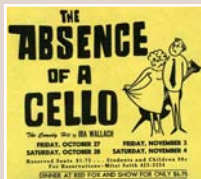
### ► Science and the Media

*Arrogance of the Sciences* is the title of a 30-minute video that appears in the opinion section of the *Wall Street Journal's* website. Media analyst Steven Corneliussen discusses the video's significance in the broader context of the newspaper's coverage of climate change.



### ► Enterprise

The American Physical Society and the American Institute of Physics recently held their third joint Industrial Physics Forum in Denver, Colorado. Two reports describe the proceedings.



### ◀ The Dayside

In his blog, PHYSICS TODAY's online editor Charles Day writes about the revival of the brewery founded by James Joule's ancestors, the NCAA Men's Division I Basketball Championship, the state of the US job market for scientists, and a comic novel from 1960 about a particle physicist.

www.physicstoday.org