

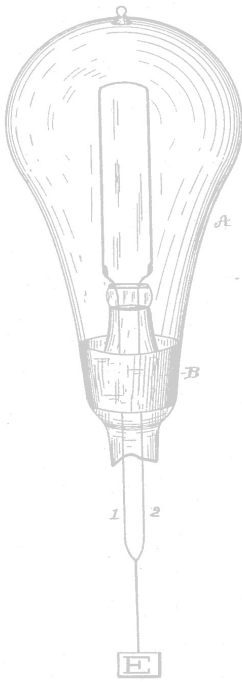


*Annual  
Inventor  
Recognition  
Ceremony*

**To honor Fermilab  
Inventors, Creators  
& Entrepreneurs**

**A Virtual Celebration**

**February 25, 2021  
2:00 p.m. - 3:00 p.m.**



## Agenda

**Welcome & 2020 Highlights**

**Cherri J. Schmidt**  
*Head, Office of Partnerships  
and Technology Transfer*

**Message from  
the Director**

**Nigel Lockyer**  
*Director*

**Messages from the  
Department of Energy**

**Rick Verhaagen**  
*Fermi Site Office Manager*

**Vanessa Chan**  
*Chief Commercialization Officer,  
Office of Technology Transitions*

## Innovator Recognition and Awards Presentations

**DOE Technology Transfer Working Group**

**Best in Class Award**

**Single Purpose Labs, Plants, and Facilities**

*Fermi National Accelerator Laboratory*

Timothy Meyer, Cherri Schmidt, Mauricio Suarez, Charles Cooper, Ram Dhuley, Michael Geelhoed, Slavica Grdanovska, Robert Kephart (retired), Thomas K Kroc, Laura J Rogas, Aaron Sauers, Jayakar (Charles) Thangaraj, and Stephany Unruh

**Society of Hispanic Professional Engineers**

**Aria Soha**

*2020 Servant Leadership Award*

**Institute of Electric and Electronic Engineers**

**Vladimir Shiltsev - IEEE Fellow**

*Development of electron lenses and contributions to accelerator technology and beam physics*

## 2020 Universities Research Association Awards

### Javier Tiffenberg - Early Career Award

*Development of a new generation of charge-coupled devices (skipper CCDs)*

### Adi Ashkenazi - Tollestrup Award

*Substantial improvements to the modeling of neutrino interactions*

## 2020 Patent Awardees

**Derek Plant**

Railroad block/grade crossing warning system

*U.S. Patent #10,556,604, Issued February 11, 2020*

**Mohamed Awida Hassan**

Automatic tuning of dressed multicell cavities using pressurized balloons

*U.S. Patent #110,645,793, Issued May 5, 2020*

**Donato Passarelli**

**Chris Jensen**

Pulse Charging System

**Howard Pfeffer**

*U.S. Patent #10,734,980, Issued August 4, 2020*

**Kenneth Quinn**

**Matthew Kufer**

**Alex Lumpkin**

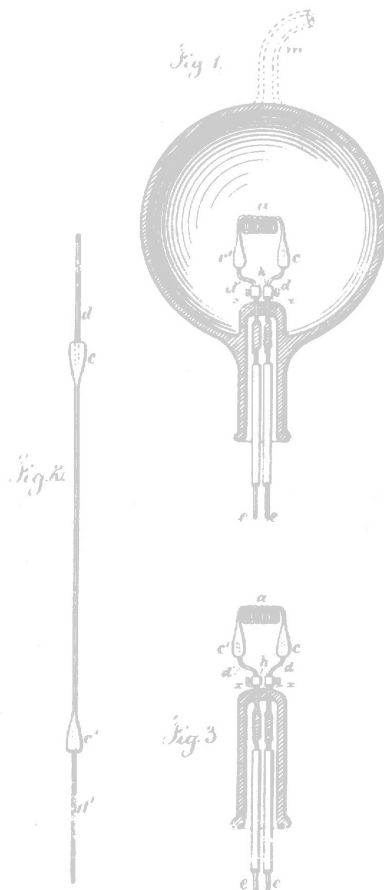
Monocrystal-based microchannel plate image intensifier

*U.S. Patent #10,809,393, Issued October 20, 2020*

**Thomas Kroc**

Permanent magnet e-beam/x-ray horn

*U.S. Patent #10,880,984, Issued December 29, 2020*



## Disclosures:

- Kris Anderson
- Richard Andrews
- Sujit Bidhar
- Zuxing Chen
- Charles Cooper
- Grzegorz Deptuch
- Ram Dhuley
- Ivan Gonin
- Slavica Grdanovska
- Chris Green
- Stefan Gruenendahl
- Timothy Hamerla
- Thomas Hein
- James Hoff
- Thomas Kroc
- Gregory Langlois
- Marco Mambelli
- Roger Milholland
- Sandeep Miryala
- Thomas Nicol
- Jackson O'Donnell
- Marc Paterno
- Derek Plant
- Timothy Ring
- Jin-Yuan Wu

## Remembering Alvin Tollestrup (1924-2020):



Alvin Tollestrup led the pioneering work of designing and testing 1,000 superconducting magnets used in the Tevatron, which operated from 1983 until 2011 and for 25 years was the world's most powerful particle collider. This was the first large-scale application of superconductivity worldwide.

Tollestrup was the recipient of the National Medal of Technology, the Robert R. Wilson Prize of the American Physical Society, and the IEEE Superconductivity Award. He was elected to the National Academy of Science. He is also the namesake of the Tollestrup Award for Postdoctoral Research, which the Universities Research Association has presented annually since 2003.

In August 2020, the lecture hall in the IARC building was renamed the Alvin Tollestrup Auditorium.

The Office of Partnerships and Technology Transfer graciously thanks everyone who helped contribute to this year's event.

Please contact [OPTT@fnal.gov](mailto:OPTT@fnal.gov) with your 2021 invention disclosures.