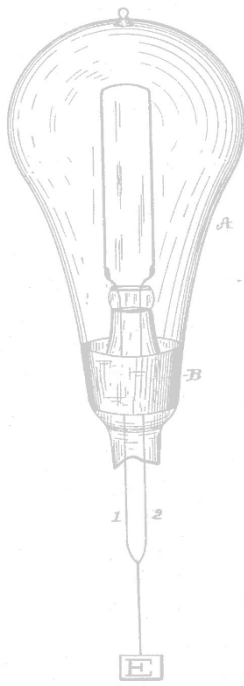


*Annual
Inventor
Recognition
Ceremony*

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

Labwide Celebration

**February 23, 2023
1:00 p.m. - 3:00 p.m.**



Agenda

Welcome and 2022 Highlights

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

**Message from
the Director**

Lia Merminga
Fermilab Director

**Messages from the
Department of Energy**

Whitney Begner
Deputy Site Office Manager, FSO

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

Innovator Recognition and Awards Presentations

**Institute of Electrical and Electronic Engineers
Nuclear and Plasma Sciences Society**

Alexander Romanenko

2022 Particle Accelerator Science and Technology Award

for outstanding contributions to science and technology of radio frequency
superconductivity for particle accelerators

Smithsonian STEM Exhibit – Women’s Futures Month

Jessica Esquivel

#IfThenSheCan

featuring 120 life-size 3D statues of women who have excelled
in the fields of science, technology, engineering and mathematics, or STEM

Breakthrough Prize Foundation

Anna Grassellino

New Horizons in Physics Prize

for her work and impact in particle accelerator technology and quantum information science
and for the discovery of major performance enhancements to niobium superconducting radio-frequency cavities,
with applications ranging from accelerator physics to quantum devices

2022 Patent Awardees

Michael Geelhoed

Water Purification System
U.S. Patent #11,465,920, Issued October 11, 2022

Sam Posen
Anna Grassellino

Method for Treating Superconducting Cavities
U.S. Patent #11,266,005, Issued March 1, 2022

Alexander Romanenko
Sam Posen
Anna Grassellino

Methods and Systems for Treatment of Superconducting Materials
to Improve Low Field Performance
U.S. Patent #11,464,102, Issued October 4, 2022

Curtis Baffes

System for Sealing Flanged Connections
U.S. Patent #11,353,450, Issued June 7, 2022

David Johnson
Todd Johnson

Method and System for Arbitrary Optical Pulse Generation
U.S. Patent #11,323,105, Issued May 3, 2022

Thomas Kroc

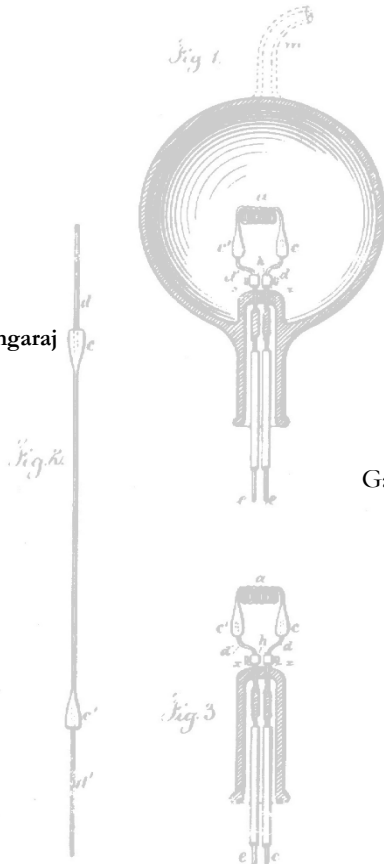
Permanent Magnet E-Beam/X-ray Horn
U.S. Patent #11,291,104, Issued March 29, 2022

Robert Kephart
Jayakar Charles Tobin Thangaraj
Thomas Kroc

SRF E-Beam Accelerator for Metal Additive Manufacturing
U.S. Patent #11,224,918, Issued January 18, 2022

Jin-Yuan Wu

Gated Ring Oscillator with Constant Dynamic Power Consumption
U.S. Patent #11,283,430, Issued March 22, 2022



2022 Invention and Software Disclosures

- Mustafa Bal
- Kurt Biery
- Vijay Chouhan
- Pengfei Ding
- Juan Vigil Estrada
- Eric Flumerfelt
- John Freeman
- Ivan Gonin
- Anna Grassellino
- Ben Hawks
- Matthew Hollister
- Glenn Johnson
- Vladimir Kashikhin
- Sergey Kazakov
- Wesley Ketchum
- Mohan Krishnamoorthy
- Thomas Kroc
- Sven Leyffer
- Gennadiy Lukhanin
- Guillermo Fernandez Moroni
- Stephen Mrena
- Akshay Murthy
- Eric Neilsen, Jr.
- Tom Peterka
- Ronald Rechenmacher
- Patrick Riehecky
- Tim Ring
- Ryan Rivera
- Alexander Romanenko
- Daniel Schoo
- Gianni Tassotto
- Javier Tiffenberg
- Lorenzo Uplegger
- Changqing Wang
- Vyacheslav Yakovlev
- Orcun Yildiz
- Silvia Zorzetti

Technology Accelerating Science Award

Accelerator Controls Network (ACNET) Development Team

For sustained innovation in the development and deployment of technology that has enabled world class particle physics at Fermi National Accelerator Laboratory. This award recognizes the contributions of 190 authors over several decades to the Fermilab Accelerator Controls Network (ACNET), which includes:

Control System Front-End Software

Control System Central Services Software

Control System User Applications

ACNET Development Team Members

Phil Adamson	Nicholas Evans	Michelle Leveling
Seung-Chan Ahn	Denise Finstrom	Tony Leveling
Demetrius Andrews	Alex Fishbeck	Katie Leveling
Gerald Annala	Martin Fitzgerald	Clint Lewsader
William Ashmanskas	Robert Florian	Saul Lipton
Omar Al Atassi	Gary Ganster	Joseph Longo
Mark Austin	Fernanda Garcia	Eugene Lorman
Mike Backfish	Matthew Gardner	Boris Lublinsky
Charles Bacon	Gabriele Garzoglio	Ben Mack
Debra Baddorf	Consolato Gattuso	Vern Mandondji-Bangole
Peter Bagley	Krzysztof Genser	Jaime Mantel
Purnima Balakrishnan	Eliana Gianfelice	Owen Marshall
Dennis Barak	Mariana Gonzalez	Dan McArthur
Barry Barnes	Bob Goodwin	Meghan Mcateer
Kevin Barson	Krish Gounder	Elliott Mccrory
Steve Beck	Bathsheba Grossman	Michele McCusker-Whiting
Michael Begel	Tom Groves	Jack Mealy
Chandra Bhat	Victor Grzelak	Marc Mengel
Frank Bieniosek	Pierrick Hanlet	Geoff Mills
Dixon Bogert	Bruce Hanna	Maxwell Monningh
Brian Bolek	Elvin Harms	Ronald Moore
Timofei Bolshakov	Beau Harrison	Oleksii Moroz
Andrew Braun	Kyle Hazelwood	Denton Morris
Charlie Briegel	David Herrup	Marty Murphy
Daniel Broemmelsiek	Andy Hocker	Vladimir Nagaslaev
Jim Budlong	James A. Holt	Jovan Nelson
Kelly Cahill	Caius Howcroft	Rich Neswold
Jialing Cai	Jim Huang	Alexandr Netepenko
Jerry Cai	Iouri Ivanov	Duane Newhart
Linden Carmichael	Yuri Ivanov	Lola Ogunmefun
Lee Chapman	Gerry Jackson	Marv Olson
Dinker Charak	Andreas Jansson	Seth Osher
Salah Chaurize	Dave Johnson	Suzanne Panacek
Joe Compton	Glenn Johnson	Vaia Papadimitriou
Mary Convery	Teresa Johnson	Andrii Pastushenko
Darren Crawford	Stan Johnson	James Patrick
Edward Dambik	Valery Kapin	Gilberto Perez
Kwasi Danquah	Patrick Karns	Andrey Petrov
Douglas Davis	Guennadi Karpov	Luciano Piccoli
George Deinlein	Dale Keehan	Rni Alves Pires
Paul Derwent	Terry Kiper	Milorad Popovic
John Devoy	Wally Kissel	Eric Prebys
Jonathan Edelen	Thomas Kobilarcik	Vahid Ranjbar
Dean Edstrom	Alexander Kulyavtzev	Ron Rechenmacher
Joshua Einstein-Curtis	Nikolay Kuropatkin	Juan Reyna
Keith Engell	Sharon Lackey	Don Rohde
	Valeri Lebedev	Jinhao Ruan

Nathan Ruffatti
Al Russell
Greg Saewert
Floyd Sample
Shrividhyaa Sankar Raman
Carl Schumann
Duncan Scott
Donna Siergiej
Lalitha Sista
Megan Smedinghoff
Scott Smedinghoff
Pat Oleksy Smith
Sandra Sommers
Robin Spayde
Pierpaolo Stabile
Giulio Stancari
Derek Steinkamp
Mel Storm

Todd Sullivan
Bill Sullivan
Cheng-Yang Tan
Congcong Tan
Dominic Tancredi
Randy Thurman-Keup
Roger Tokarek
Donovan Tooke
Kent Triplett
Jeff Utterback
Philip Varghese
Weishi Wan
Junye Wang
Arden Warner
Therese Watts
Chris Wilson
Lin Winterowd
Guan Hong Wu

Meiqin Xiao
Aimin Xiao
Xuedao Yan
Ming-Jen Yang
Xi Yang
Jianming You
Zongwei Yuan
Jie Yun
Fengxia Zhang
Xiaolong Zhang
Dehong Zhang
Jijiu Zhao
Hai Zheng
Tim Zingelman



Special Guest Dr. Vanessa Z. Chan

Dr. Vanessa Z. Chan is the Chief Commercialization Officer for the Department of Energy and Director of the Office of Technology Transitions.

She is an innovator who has worked across a wide range of ecosystems, from academia to Fortune 1000 companies to startups. She has two decades of experience helping organizations grow at the interface of technology and business, across a diverse set of industries.

The Office of Partnerships and Technology Transfer graciously thanks everyone who helped contribute to this year's event. Please contact OPTT@fnal.gov with your 2023 invention disclosures.