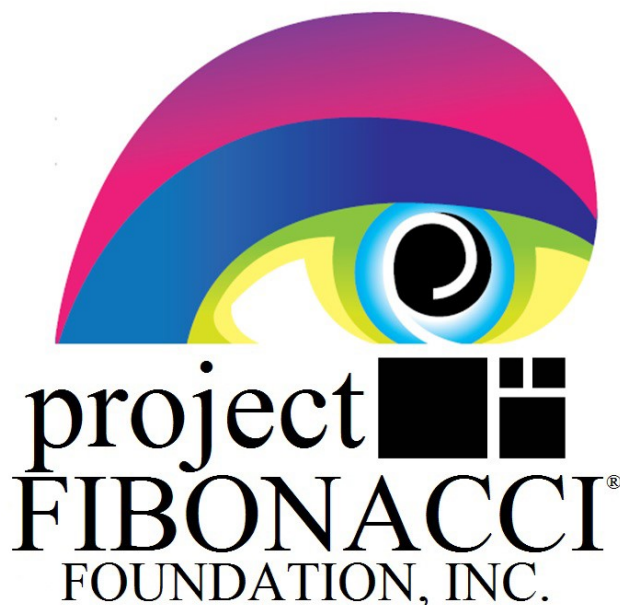


THE PROJECT FIBONACCI® FOUNDATION, INC.
PROUDLY PRESENTS

SCIENCE RESEARCH ARTS
LifeSTREAM
LIFELONG-LEARNING IN TECHNOLOGY EDUCATION THE MIND

A unique professional development series for STEM educators and school counselors, proponents of STEM with Arts (STEAM), industry professionals and business and community leaders.

LifeSTREAM Series Part I:
Friday, October 19, 2018



(315) 334-1163

P.O. BOX 424 Rome, NY 13442-0424

info@projectfibonacci.org

projectfibonacci.org

ENRICHED STEAM COMMUNITIES DRIVING A MODERN RENAISSANCE

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SCHEDULE OF EVENTS

0730-0800 Registration & Continental Breakfast

0800-0815 Opening Remarks by the Project Fibonacci® Foundation, Inc.

0815-0900 Opening Remarks by AFRL Director Col. Tim Lawrence

0910-0950 Workshop I: Neural Engineering System Design (NESD) Program
-DARPA, Dr. Al Emondi

1000-1040 Workshop II: Neural Development in Children
-AFRL, Dr. Bryant Wysocki & Dr. Nathan McDonald

1050-1130 Workshop III: HaPTix- Prosthetic Hand Proprioception & Touch Interface
-DARPA, Dr. Al Emondi

1130-1200 Panel Discussion: “Hire for Character-Train the Rest” & “Summer Jobs Teaching Life Skills”
-AFRL, DARPA, Educators, Industry Leaders

WHAT IS PROJECT FIBONACCI® ?

We are a non-profit 501 (c) (3) organization dedicated to STEAM education as a catalyst for workforce preparedness & economic growth.

EIN: 81-5327035

For more information, visit ProjectFibonacci.org

WORKSHOPS

WORKSHOP I: NEURAL ENGINEERING SYSTEM DESIGN (NESD) PROGRAM DARPA, Dr. Al Emondi

This work describes research to greatly expand the “signal resolution and data-transfer bandwidth” between brain signals and the digital world of computers as a way to improve therapies for sight or hearing and to develop neural implants that make it possible for the human brain to speak directly to computer interfaces.

WORKSHOP II: NEURAL DEVELOPMENT IN CHILDREN AFRL, Dr. Bryant Wysocki & Nathan McDonald

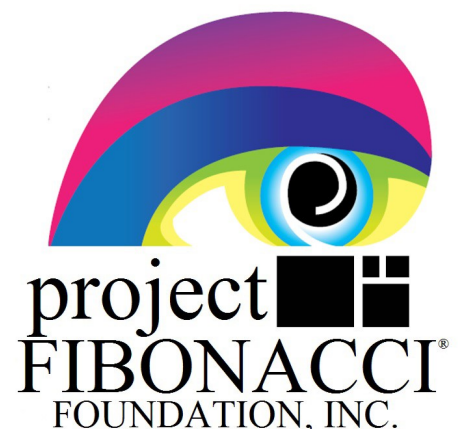
Focuses on the design of STEM activities to complement neural development in children and explores the effects of incorporating different modes of learning on neural development and suggests methods of maximizing the impact of hands-on activities designed by K-12 educators.

WORKSHOP III: HAPTIX- PROSTHETIC HAND PROPRIOCEPTION & TOUCH INTERFACE DARPA, Dr. Al Emondi

Emphasis on the development of technologies to enable precision control of and sensory feedback from sensor-equipped upper-limb prosthetic devices; fully implantable, modular and reconfigurable neural-interface systems that would enable intuitive, dexterous control of advanced upper-limb prosthetic devices and that also provide sensations like those of a natural hand.

Future LifeSTREAM Series Topics to include:

- Fundamental Limits of Learning
- Brain Computer Interfaces
- Quantum Information Science Entanglement
- Musical Improvising Collaborative Agents
- And much more...



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FEATURED SPEAKERS



Dr. Al Emondi

Defense Advanced Research Projects Agency (DARPA)

Dr. Emondi is a neuroscientist in the Biological Technologies Office where his focus is on the exploration and use of bidirectional central and peripheral nervous system interfaces toward the transformation and advancement of human-machine interaction.

Formerly with Space and Naval Warfare Systems Center (SPAWAR) Atlantic (SSC), Charleston, S.C., where he was the Chief Technology Officer (CTO) for SPAWAR Atlantic and served as Deputy CTO to the SPAWAR HQ CTO for the Atlantic region. He also led the Science & Technology competency, which was focused on basic and applied sciences, technology transition, and technology transfer. Before his tour at SSC Atlantic, he was an early pioneer for software-defined radio research initiatives at the Air Force Research Lab in Rome, N.Y. Dr. Emondi holds a Doctor of Philosophy degree in Neuroscience and a Master of Science in Electrical Engineering, both from Syracuse University, and a Bachelor of Science degree in Electrical Engineering from Wilke University.



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FEATURED SPEAKERS



Dr. Bryant Wysocki

United States Air Force

Dr. Bryant Wysocki is a Principal Engineer at the Information Directorate, Air Force Research Laboratory, Rome, N.Y. The mission of the Information Directorate is to lead the discovery, development, and integration of affordable warfighting information technologies for our air, space, and cyberspace multi-domain forces.

Dr. Wysocki is a retired Air Force officer with experience in industry, academia, and government. He has a broad span of technical leadership experience with a diverse background in military operations, acquisitions, logistics and maintenance, program management, systems engineering, engineering physics, and research and development.



Nathan McDonald

Air Force Research Laboratory (AFRL)

Nathan McDonald received his B.S. in Physics from University at Albany, SUNY, and his M.S. in Nanoscale Engineering from CNSE, University at Albany, SUNY, in 2008 and 2012, respectively. He is currently at the Air Force Research Laboratory (AFRL) Information Directorate as one of the lead researchers in hardware neuromorphic computing architectures with emphasis on optical reservoir computing. His previous research interests include memristive device fabrication and quantum computing.



UPCOMING EVENTS

Rome Restaurant Week

NOVEMBER 5TH -9TH

In hopes for promoting local businesses & Rome's amazing restaurants, The Project Fibonacci® Foundation presents Rome Restaurant Week featuring El Jarocho, Delta Lake Inn, The Savoy, Teddy's and the Beeches. Each restaurant event will begin at 6pm.

LifeSTREAM Series

JANUARY 2019

Join us for the next segment of the LifeSTREAM Series. These one-day professional development events will feature additional speakers from Defense Advanced Research Projects Agency (DARPA), Air Force Research Laboratory (AFRL), and local industries.

Women & STEAM Congress

MARCH 2019

The Project Fibonacci® Foundation, Inc. is partnering with Utica College to present a day focused on women's leadership in the STEAM fields. This day-long event will feature workshops, roundtables and keynotes from some of the brightest shining lights in education, women's issues, and STEAM.



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