

FIAP Winter 2015 Newsletter

American Physical Society Forum on Industrial & Applied Physics

Announcements & Meetings

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Comments and questions can be sent to fiap_newsletter@aps.org.

Opinions expressed represent the views of the individual authors and not the American Physical Society or author's employers.

Plan to Attend FIAP's Industry Day sessions at the March 2016 APS Meeting in Baltimore

NOW is the time for you to make plans to attend the FIAP-organized Industry Day at the March 2016 APS Meeting in Baltimore. Come hear State-of-the-Art sessions on the theme **From Nano to Meso**. Outstanding speakers from industry will bring you up to date on subjects including "Polymer Nanocomposite Thin Films" and "Computational Pathways to Accelerate the Lab to Fab Transition." More information is available at the [Industry Day webpage](#).

Register now and make your travel plans so you can engage with your industrial physics colleagues. The APS March Meeting [web-site](#) has details. FIAP has been able to consolidate its sessions into a single Industry Day to be held on Wednesday March 16, 2016, to make your attendance easier. We look forward to seeing you in Baltimore.

FIAP Election - Vote by Dec 31!

It's time to vote for FIAP leaders. The election is open through Dec 31st. You should have received an email with directions and a link to biographies and candidate statements. The email will be from noreplymydv@directvote.net. Please check your spam folder if you haven't received this email. Please contact industrialfellow@aps.org if you did not get that email.

We will elect three officers; their roles and candidates for those positions are shown below. The duties for each office are described in Article VI of the [FIAP Bylaws](#).

Please note that the election process has had some hiccups this year and you may have received multiple notices. Once you've voted, further notices should cease. In addition, the "Applied" in FIAP was left off of the election notice by mistake. We are still and will continue to be the Forum on Industrial and Applied Physics. We

apologize for any misunderstanding caused by this error.

The candidates are listed below. Full biographies are available at the links in the email. Thank you for voting and supporting FIAP!

Member-at-Large

Todd H. Brintlinger, U.S. Naval Research Laboratory
Alberto Piqué, U.S. Naval Research Laboratory
Usha Varshney, National Science Foundation

Councilor (only one candidate)

John Rumble, R&R Data and Chair of FIAP in 2014

Vice Chair (succeeds to chair-elect 2017, then chair 2018)

Jim Adams, Corvus Integration
Matt Kim, QuantTera

Looking For a Few Good Papers in Industrial & Applied Physics

Troy Shinbrot

[Physical Review Applied](#) is soliciting top quality manuscripts dealing with problems of importance to industrial physicists. We seek to provide a forum to bridge the gap between: engineering and physics, industry and academia, and current and future technologies. Our [editorial staff](#) has experience in physics, engineering, and in industrial science. Our [editorial board](#) spans disciplines ranging from conventional applied physics to modern engineering and materials science. We offer rigorous review with rapid turnaround and look forward to your submissions in fields of importance to FIAP members including:

- Quantum information
- Biomedical materials and devices
- Energy technology
- Magnetism and spintronics
- Nanotechnology
- Metamaterials
- Optics, optoelectronics, photonics, and laser physics

Launch of Integrated Photonics Manufacturing Initiative

Joseph Mantese

The American Institute for Manufacturing Integrated Photonics (AIM Photonics), is an industry driven public-private partnership whose goal is to emulate the dramatic successes experienced by the electronics industry over the past 40 years and transition key lessons, processes, and approaches to the photonic integrated circuit (PIC) industry. The institute is a consortium of industry, academic and government which aims to eliminate the longstanding obstacles to achieving growth in integrated photonics and launch a long overdue technology revolution that no single company, regardless of size, is capable of affecting on its own.

AIM Photonics supports Large, Small and Medium Enterprises, providing practical access and technology on-ramps for U.S. industry, government, and academic communities. The institute is creating a National PIC manufacturing infrastructure, widely ac-

cessible and inherently flexible to meet the challenges of the marketplace with practical, innovative solutions. In 2016, the institute will initiate thrusts in key technology manufacturing areas of interest to FIAP: chemical and biological sensing, phased arrays, data communications, and both RF and analog applications. These technologies will be enabled through an integrated photonics manufacturing technology platform comprising amongst others manufacturing excellence centers such as advanced packaging, multi-project wafer fabrication and test. The initiative has strong support by the federal government and the state of New York, and has lined up additional support from other states and the private sector.

For more information please see the AIM Photonics website www.aimphotonics.com