





National Academy of Sciences (<http://www.udel.edu/udaily/2017/december/maciek-antoniewicz-pnas-flux-analysis/>).

UD has a strong tradition of biological engineering. Other UD faculty members who belong to AIMBE's College of Fellows include: Thomas Buchanan, Prasad Dhurjati, Randall Duncan, Dawn Elliott, Kristi Kiick, Kelvin Lee, Abraham Lenhoff, David Martin, Terry Papoutsakis and Millie Sullivan.

Papoutsakis, the Unidel Eugene du Pont Chair of Chemical and Biomolecular Engineering (<http://www.che.udel.edu/>) at the University of Delaware and a member of the National Academy of Engineering, has collaborated with Antoniewicz on several projects (<http://www.udel.edu/udaily/2016/september/biofuel-research/>) aimed at harnessing biological materials to produce fuel.

"Maciek is widely regarded as a pioneer and world leader in C-13 based metabolic flux analysis (<sup>13</sup>C-MFA)," said Papoutsakis. "<sup>13</sup>C-MFA is used by metabolic engineers and biomedical investigators to unravel the mysteries of life by mapping the flow of nutrients in living cells under relevant in vivo conditions."

Papoutsakis added that Antoniewicz's group has made important contributions towards the development of novel stable-isotope labeling techniques, computational tools, analytical mass spectrometry techniques and experimental approaches for quantifying the in vivo activity of metabolic fluxes.

"Importantly, Maciek is a very generous individual to students of all ranks and colleagues, collaborative, intellectually curious, an intellectual powerhouse," he said.

Antoniewicz joined UD in 2007. He earned bachelor's and master's degrees in chemical engineering at Delft University of Technology in the Netherlands and his doctorai degree in

chemical engineering at Massachusetts Institute of Technology. Other major awards include the Biotechnology and Bioengineering Daniel I.C. Wang Award (2015), Gerard J. Mangone Young Scholars Award of the Francis Alison Society (2012), Outstanding Junior Faculty Member award from UD's College of Engineering (2012), National Science Foundation (NSF) CAREER Award (2011-2016), James E. Bailey Young Investigator Award in Metabolic Engineering (2008) and DuPont Young Professor Award (2008).



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**Dr. Maciek Antoniewicz Inducted into Medical and Biological Engineering Elite**

WASHINGTON, D.C.— The American Institute for Medical and Biological Engineering (AIMBE) has announced the induction of Maciek R. Antoniewicz, Ph.D., Centennial Professor, Department of Chemical and Biomolecular Engineering, University of Delaware to its College of Fellows. Dr. Antoniewicz was nominated, reviewed, and elected by peers and members of the College of Fellows for pioneering contributions in advancing stable-isotope tracing and quantitative metabolic flux analysis approaches in biomedical and biological engineering.

Election to the AIMBE College of Fellows is among the highest professional distinctions accorded to a medical and biological engineer. The College of Fellows is comprised of the top two percent of medical and biological engineers. College membership honors those who have made outstanding contributions to "engineering and medicine research, practice, or education" and to "the pioneering of new and developing fields of technology, making major advancements in traditional fields of medical and biological engineering, or developing/implementing innovative approaches to bioengineering education."

A formal induction ceremony was held during the AIMBE Annual Meeting at the National Academy of Sciences in Washington, DC on April 9, 2018. Dr. Antoniewicz was inducted along with 156 colleagues who make up the AIMBE College of Fellows Class of 2018.

**About AIMBE**

AIMBE is the authoritative voice and advocate for the value of medical and biological engineering to society. AIMBE's mission is to recognize excellence, advance the public understanding, and accelerate medical and biological innovation. No other organization can bring together academic, industry, government, and scientific societies to form a highly influential community advancing medical and biological engineering. AIMBE's mission drives advocacy initiatives into action on Capitol Hill and beyond.

For more information about the AIMBE, please visit [www.aimbe.org](http://www.aimbe.org).