

Amy Fleischer, PhD

Professor and Chair of Mechanical Engineering | College of Engineering at Villanova University
Villanova, PA, US

Amy Fleischer, PhD, is recognized as a world-wide expert in thermal-fluid system design and electronic cooling systems.

Biography

Amy Fleischer is Department Chair and Professor of Mechanical Engineering at Villanova University. She is also Director of the Center for Energy-Smart Electronic Systems and the NovaTherm Research Laboratory. Her research interests include the broad topics of sustainable energy system design and thermal management of electronic systems. Recent research projects included energy storage in phase change materials, waste heat recovery from data centers, development of energy absorbing building materials, development of nano-enhanced materials including graphite nanofiber thermal interface materials, jet impingement, porous media heat sinks and boiling heat transfer. Over the past 14 years she has been a part of more than 30 funded grants for a total budget of approximately \$4.2 million.

Dr. Fleischer is also a vocal advocate for the advancement of women in STEM careers.

Industry Expertise

Education/Learning, Research

Areas of Expertise

Data Centers, Heat Transfer, Thermodynamics, Fluid Mechanics, Finite Element Analysis, Database Cooling Systems, Women in STEM

Affiliations

Director, Villanova University NovaTherm Laboratory, Director, Villanova University Center for Energy-Smart Electronic Systems, Contributor, U.S. News & World Report, Board Member, Girl Scouts of Eastern Pennsylvania

Education

University of Minnesota-Twin Cities
PhD

Villanova University
MSME

Villanova University
BSME

Select Accomplishments

2011 Clock Award

ASME K-16/ EPPD

2010 Women Engineer of the Year

ASME Electronics and Photonics Packaging Division

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