

Todd Przybycien, Professor

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Professor Przybycien's biomedical research interests include drug delivery, devices for clinical diagnostics, and nanobiotechnology; these involve collaborations with scientists, engineers and clinicians in many fields. His current projects include:

- Use of surfactants to enhance aerosol drug delivery to the cystic fibrotic lung. Image at right is a radioscintigraphy showing non-uniform and reduced spreading of aerosol due to airway blocking in a cystic fibrotic lung.
- Development of a hand-held device based on tissue reflectance spectroscopy for early detection of pressure ulcers.
- Determination of the early fate of nanoparticles on exposure to blood.

Professor Przybycien has published more than 60 papers and holds three patents. He is a Fellow of the American Institute for Medical and Biological Engineering and of the American Institute of Chemical Engineers.

