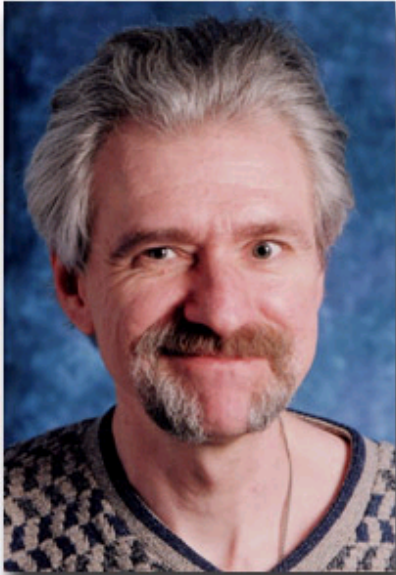


# Biomedical Engineering

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## Gary M. Drzewiecki

Address: 599 Taylor Road (Bldg# 3893)  
Piscataway, NJ 08854

Room: BME-304

Phone: 732-445-4500 x6304

Email: [garydrz@rci.rutgers.edu](mailto:garydrz@rci.rutgers.edu)

Our lab is devoted to models and measurements of the cardiovascular system. Most recently, we have developed: a new method for the continuous noninvasive measurement of arterial blood pressure; a model of the mechanics of stunned myocardium; fluid dynamic models of pressure and flow in arterial stenosis; and a noninvasive method that analyzes routine blood pressure data to yield the lumen area and compliance of the blood vessels underlying the occlusive cuff.

### Recent Papers:

1. Du, F, Chen, XL, Drzewiecki, G, Li, JJ, and Kedem, J, Hypervolaemia Improves Global and Local Function and Efficiency in Postischaemic Myocardium Clin Exp Pharmacol Physiol 8: 630-636 (2001).
2. Barton-Scott, T, and Drzewiecki, G, Origines of Pressure Variability in Compressed Blood Vessels American Journal of Hypertension 13: 225A (2000).
3. Zbaida, A, Barton-Scott, T, Drzewiecki, G, Li, K-J, and Kedem, J, Series Elastic Fiber Damage in Stunned Myocardium American Journal of Hypertension 13: 51A (2000).



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