

Public Lecture

Saturday September 19, 2015 • 10am-12pm

Davies Auditorium • Yale University

10 Hillhouse Ave. New Haven

Biomedical Engineering meets nanostructured metals:

A match made in New Haven

Dr. Themis Kyriakides • Yale/CRISP

<http://medicine.yale.edu/lab/kyriakides/index.aspx>

Biomaterials are commonly used in modern medicine either as components of reconstructive implants, implantable sensors, or vehicles for localized delivery of therapeutics. There is a need to develop biomaterials that are well tolerated by the body and can instruct the surrounding microenvironment towards favorable responses. Bulk metallic glasses (BMGs) are metallic alloys with an amorphous atomic structure that combine metal-like mechanical properties and polymer-like processibility. In addition, thermoplastic forming of BMGs enables the fabrication of intricate designs and nanoscale features, which can be further used to reduce adverse biological reactions and enhance implant function. Because of these unique properties, BMGs could be ideally suited for biomaterial applications. Despite the apparent advantages of this class of materials, the prospect of BMGs as biomaterials has been largely unexplored. Please join Prof. Kyriakides as he discusses how nanostructured BMGs could be used for biomedical applications.

After the lecture, hands-on science demonstrations and lab tours will be available.

Refreshments will be served.

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To sign up for a lab tour, please go to https://yalesurvey.qualtrics.com/SE/?SID=SV_cvxEYK6Z6VDtXRH