CCNY-TARDEC-Novus Research Project

Advanced Lightweight Multi-Functional Multi-Threat Composite Protection Materials Technology

- Sponsor: U.S. Army TARDEC
- Funding: $4.4M (more funding is expected)
- Duration: 2009-2013 (further extension is expected)
- Project Director: Prof. F. Delale, CCNY, Mech. Eng.
  Tel: 212-650-5224   E-Mail: delale@ccny.cuny.edu
- Project Co-Director: Prof. B. Liaw, CCNY, Mech. Eng.
- Faculty Participants: Profs. Y. Andreopoulos, N. Elvin & J. Li
- Industrial Partner: Novus Technologies
- Opportunities for industrial collaboration available
- Sample Tasks: See the descriptions inside the brochure
- U.S. citizenship required.
Desirable background of the applicants:

a) Strong background in materials science and solid mechanics;
b) Excellent background of mathematics & physics;
c) Experience in material testing & finite elements;
d) U.S. citizenship required.
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Desirable background of the applicants:
a) Strong background in fluid and solid mechanics;
b) Excellent background of mathematics & physics;
c) Experience in fluid testing, optics & computational fluid dynamics;
d) U.S. citizenship required.

Figure 2-6. Shock loading and corresponding permanent deformation normalized by the thickness of the plate t.
CCNY-TARDEC-Novus Research Project
Sensing Technologies for Advanced Material Systems

Acoustic Emission Sensing
Impedance Sensing
Optical Fiber Sensors

Desirable background of the applicants:
- a) Strong interest in electronics and solid mechanics;
- b) Excellent background of mathematics & physics;
- c) Experience in material testing & electronic circuits;
- d) U.S. citizenship required.

Self-Powered Fatigue Sensor