

Benjamin P. Boesl

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A. Professional Preparation

University of Florida	Aerospace Engineering	Bachelor of Science, 2004
University of Florida	Aerospace Engineering	Master of Science, 2009
University of Florida	Aerospace Engineering	Doctor of Philosophy, 2009
US Army Research Laboratory	Materials Response and Design Branch	Post-Doc, 2009-2012

B. Appointments

Florida International University	Asst. Director, AMERI	2016-Present
Florida International University	Assistant Professor	2012-Present

C. Products

(i) *Publications most closely related to project*

- A. Nieto*, R. Dua, C. Zhang*, S. Ramaswamy, B. Boesl, A. Agarwal. *Three Dimensional Graphene Foam/Polymer Hybrid as a High Strength Biocompatible Scaffold*. **Advanced Functional Materials** 25-25 (2015) 3916-3924
- C. Rudolf, B. Boesl, A. Agarwal, *In-Situ Mechanical Testing Techniques for Real-time Materials Deformation Characterization* **JOM** 68 (2015) 136-142
- C. Rudolf, B. Boesl, A. Agarwal. *In situ Indentation Behavior of Bulk Graphene Nanoplatelets with Respect to Orientation* **Carbon** 94 (2015) 872-878 IF: 6.20
- A. Nieto, B. Boesl, A. Agarwal. *Multi-scale Intrinsic Deformation Behavior of Free-standing 3D Graphene Foam*. **Carbon** 85 (2015) 299-308
- R. Nikkhah-Moshaie, G. Bourne, M. Kirsch, B. Boesl. *Real time monitoring of twin boundary motion in polycrystalline magnetocaloric $Ni_{2+x}Mn_{1-x}Ga$ by in situ focused ion beam microscopy*. **Materials Letters** 180 (2016) 273-276

(ii) *Other significant products*

- B. Boesl, D. Lahiri, S. Behdad, A. Agarwal. *Direct Observation of CNT Induced Strengthening in Al Composite via In Situ Tensile Tests*. **Carbon** 69 (2014) 79-85
- S. B Pitchuka, B. Boesl, C. Zhang, D. Lahiri, A. Nieto, G Sundararajan, A. Agarwal. *Dry Sliding Wear Behavior of Cold Sprayed Aluminum Amorphous/Nanocrystalline Alloy Coatings*. **Surface Coatings Technology** 238 (2014) 118-125
- D. Craciun, G. Socol, G. Dorcioman, D. Simeone, D Gosset, S. Behdad, B. Boesl, V. Craciun. *Ar ions irradiation effects in ZrN thin films grown by pulsed laser deposition*. **Applied Surface Science** 336 (2014) 129-132
- C. Rudolf, A. Agarwal, B. Boesl. *TaCNbC Formed by Spark Plasma Sintering with the Addition of Sintering Additives*, **Journal-Ceramic Society Japan** 124-4 (2016) 381-387

- S. Behdad, L. Zhou, H.B. Henderson, M. Manuel, Y. Sohn, A. Agarwal, B. Boesl. *Improvement of Aging Kinetics and Precipitate Size Refinement in Mg-Sn alloys by Hafnium Additions* **Materials Science and Engineering A** 651 (2016) 854-858

D. Synergistic Activities

- Guest Editor – The Journal of The Minerals, Metals & Materials Society (TMS),
- Member of AIAA Young Professional Committee and Career and Workforce Development Committee.
- Faculty Advisor to FIU Student Chapter of the American Society of Mechanical Engineers.
- Lead: Collaborative Agreement with Army Research Laboratory
- Participant in NSF Funded Nanoscale Informal Science Education Network (NISENet) in collaboration with Miami Science Museum.

E. Collaborators & other Affiliations

- *Graduate Advisor(s)*: B. Sankar & W.G. Sawyer (Univ. of Florida)
- *Postdoctoral Scholar Advisor(s)*: C.-F Yen (US Army Research Laboratory)
- *Postdoctoral Scholar Sponsor*: S. Behdad (FIU)
- *Graduate Students: PhD*: S. Amruthaluri (Miami, FL), S. Behdad (Magic Leap, Davie, FL), H. Alduru (FIU), V. Musaramthota (FIU), C. Rudolf (FIU), R. Nikkhah-Moshaie (FIU), C. Zhang (FIU), P. Nautiyal (FIU), A. Longanathan (FIU) *MS*: K. Yang (UW- Eau Claire), D. Watring (FIU), L. Embery (FIU), L. de Fontoura (FIU), S. Rengifo (FIU)
- *Co-Editors*: A. Agarwal (FIU), N. Dahotre (Univ. North Texas), S. Harimkar (Oklahoma St.), H. Vora (Oklahoma St.)
- *Collaborators*: A. Agarwal (FIU), D.L. Burriss (Univ. Delaware), G. Bourne (Colorado School of Mines), Z. Cheng (FIU), D. Craciun (NILPRP, Romania), V. Craciun (NILPRP, Romania), G. Dorcioman (NILPRP, Romania), R. Dua (FIU), S. Ghiorse (Army Res. Lab), M. Gonzalez (Univ. Central Florida), J. Hashemi (Florida Atlantic Univ.), H. Henderson (Univ. Florida), C. Himcinschi (Inst. Theo. Phys., Germany), C. Kammerer (Univ. Central Florida), R. Karkkainen (Univ. Miami), S. Khizroev (FIU), M. Kirsch (Colorado School of Mines), D. Lahiri (IIT-Roorkee), H Mahfuz (Florida Atlantic Univ.), H. Makino (Res. Inst, Kochi, Japan), M. Manuel (Univ. Florida), N.L. McCook (Exactech, Gainesville, FL), D. McDaniel (FIU), N. Munroe (FIU), A. Nieto (UC-Davis), S.B. Pitchuka (ARCI, Hyderabad, India), A. Quabili (Army Res. Lab), S. Ramaswamy (FIU), S.M. Sabet (Florida Atlantic Univ.), D. Sciti (ISTEC, Italy), D. Simeone (CEA, Malabry, France), L. Silverstoni (ISTEC, Italy), G. Socol (NILPRP, Romania), M. Socol (Nat. Inst. Material Phys, Romania), Y. Sohn (Univ. Central Florida), G. Sundararajan (ARCI, Hyderabad, India), A Tenetis (Florida Atlantic Univ.), B.S. Vasile (Univ. Politehnica, Romania), C. Wang (FIU), J. Yu (Army Res. Lab), Y. Zhong (FIU), L. Zhou (Univ. Central Florida)