

BIOGRAPHICAL SKETCH

NAME Dhimiter Bello		POSITION TITLE Assistant Professor of Occupational Hygiene and Work Environment Chemistry; Department of Work Environment; University of Massachusetts Lowell	
eRA COMMONS USER NAME Bello3343			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Tirana, Albania	B.S.	1993	Industrial Chemistry
University of Manchester, UK	M.S.	1997	Environ. Sciences and Policy
University of Massachusetts Lowell	Sc.D.	2003	Occupational Hygiene
Harvard School of Public Health	Post-doc	2006/09	Environmental Epidemiology

A. POSITIONS AND HONORS

- 1993-1997 Research Chemist and Instructor of Analytical Chemistry, University of Tirana, Albania
- 1998-2002 Doctoral student/Research Assistant in Occupational Hygiene, UMass Lowell, Work Environment Dept.
- 2003-2004/08 Research Chemist & Occupational Hygienist, UMass Lowell, Work Environment Department
- 2004/09-2006 Post-doctoral fellow; Harvard School of Public Health; Exposure, Epidemiology & Risk (EER) Program
- 2006/09 -prsent: Asst. Prof., Occupational Hygiene, Work Environment Dept., University of Massachusetts Lowell
- 2007/01- prsent: Visiting Scientist; Harvard School of Public Health; Exposure, Epidemiology & Risk (EER)

RELATED ACTIVITIES

- 1996 The Open Society Foundation grant (Albania) for the Master of Science program at the Central European University, Budapest, August 1996 to September 1997;
- 2000 AIHA Foundation -TSI Incorporated /Arthur J. Abrams Endowed Scholarship Award;
- 2003 Work Environment Department "Scholarship Award" in recognition of outstanding doctoral research, June 2003;
- 2008 AIHA President's 'Outstanding project team award' for outstanding service and dedication to the EASC dermal project team, June 2008.
- 2008 Michigan Industrial Hygiene Society: '2007 Best Paper Award'

B. SELECTED PEER-REVIEWED PUBLICATIONS (IN CHRONOLOGICAL ORDER).

- 2002 **Bello, D.**, M. A. Virji, A. Kalil and S. R. Woskie: Quantification of respirable, thoracic and inhalable quartz exposures by FT-IR in personal impactor samples from construction sites. *Appl Occup Environ Hyg*, 17 (8): 580-590.
- 2002 **Bello, D.**, R.P. Streicher and S.R. Woskie: Evaluation of the NIOSH draft method 5525 for determination of the total reactive isocyanate group (TRIG) for aliphatic isocyanates in auto body repair shops. *J Environ Monit*, 4, 351-360.
- 2004 **Bello D.**, SR Woskie, RP Streicher, EA Eisen, MJ Ellenbecker, F Youngs, Y Liu, MH Stowe, J Sparer, MR Cullen, CA Redlich: Polyisocyanates in occupational environments: Critical review of exposure limits and metrics. *Am J Ind Med*, 46(5):480-491.
- 2005 **Bello D.**, SR Woskie, RP Streicher, MH Stowe, J Sparer, CA Redlich, MR Cullen and Y Liu: A Laboratory Investigation of the Effectiveness of Various Skin and Surface Decontaminants for Aliphatic Polyisocyanates. *J. Environ. Monit.*, Jul;7(7):716-21.
- 2008 **Bello D.**, AJ Hart, K Ahn, M Hallock, N Yamamoto, E Garcia, MJ Ellenbecker, BL Wardle: Particle exposure levels during CVD growth and subsequent handling of vertically-aligned carbon nanotube films. *Carbon*, 2008; 46, 974-81.

- 2008 Rogers E, **D Bello**, SF Hsieh: Oxidative stress as a screening metric of potential toxicity by nanoparticles and airborne particulate matter. *Inh Tox*. 2008, 20(9), 895.
- 2008 Rogers E, SF Hsieh, N Rao, D Schmidt, **D Bello**: A high throughput analytical approach to screen for oxidative stress potential exerted by nanomaterials in a biologically relevant matrix: human blood serum. *Tox in Vitro*, 2008, 22, 1639-47.
- 2009 Liu Y, Stowe MH, **Bello D**, Sparer JA, Gore R, Cullen MR, Redlich CA, Woskie SR. Skin exposure to aliphatic polyisocyanates in the auto body repair and refinishing industry: III. A personal exposure algorithm. *Ann Occup Hyg* 2009, 53(1), 33-40.
- 2009 **Bello D**, BL Wardle, K Ahn, N Yamamoto, E Garcia, RG deVilloria, AJ Hart, MJ Ellenbecker, M Hallock: Exposure to nanoscale particles and fibers during machining of hybrid advanced composites containing carbon nanotubes. *J Nanoparticle Research*, 2008, 11(1), 231-250.
- 2009 **Bello D**, Hsieh SF, D. Schmidt, EJ Rogers. Nanomaterials properties vs. biological oxidant damage: implications for toxicity screening and exposure assessment. *Nanotox*, 2009; accepted.

C. RESEARCH SUPPORT

CURRENT SUPPORT (FOR LAST THREE YEARS, IN CHRONOLOGICAL ORDER)

Project # (PIs) #LCV000000050953; Julie Chen

Title: Development of a high throughput analytical approach to screen for oxidative stress potential of nanomaterials.

Sponsor: Massachusetts Technology Collaborative through Nanomanufacturing Center of Excellence,

Period: 07/01/2007-06/30/2009

Role: Co-PIs: Eugene Rogers and Dhimiter Bello; To develop a high throughput toxicity screening assay for nanomaterials based on their oxidative damage potential in human blood serum;

Project # (PI): #S5800000007904; D. Bello

Title: Evaluation of potential exposures to nano silver in antimicrobial coatings.

Sponsor: Nypro Inc.

Period: 07/01/2008-06/30/2009

Role: Exposure assessment and oversight of chemical analysis of air and skin samples.

Project # (PI): #00000000002948; D. Bello

Title: Isocyanate analysis of air and skin samples for the air force exposure assessment study.

Sponsor: US Department of the Air force through Northrop Grumman Corp.

Period: 06/17/2008-8/24/2009

Role: Expertise with exposure assessment issues, oversight of analysis of isocyanate air and skin samples.

COMPLETED

Project # (PI) Thomas J. Smith

Title: Training Grant in environmental epidemiology, Harvard School of Public Health

Sponsor: NRSA; Grant # T32 ES07069

Period: Sept 2004- Aug 2006

Role: Training in physiologically based pharmacokinetic modeling (PBPK), exposure biology, skin-lung interactions.