

CURRICULUM VITAE
TAREK M. ABDEL-FATTAH

PERSONAL INFORMATION:

Address:

Department of Biology, Chemistry and Environmental Science
Christopher Newport University
Newport News, VA 23606
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Citizenship: American

EDUCATION:

Ph. D. (Inorganic/Materials Chemistry), Northeastern University, 1990-94

M. Sc. (Inorganic/Analytical Chemistry), Alexandria University, 1984-88

B. Sc. (Special Chemistry), Alexandria University, 1979-83

EXPERIENCE:

Department of Biology, Chemistry and Environmental Science, Christopher Newport University:

CNU Director of Applied Research Center (ARC), 2006-present.

Associate Professor, 2005-present

Assistant Professor, 1999-present

Co-Director of Undergraduate Research Studies.

Department of Environmental Engineering, Michigan State University:

Visiting Scholar, 1998-1999

Aerospace and Catalyst Technology, AlliedSignal Inc.

Research Associate, 1997-98

Center of Fundamental Materials Research, Department of Chemistry, Michigan State University:

Research Associate, 1995-97

Department of Chemistry, Northeastern University:

Teaching/Research Assistant in Chemistry, 1990-94

Taught labs and recitations in General, Analytical and Inorganic Chemistry

Department of Chemistry, Alexandria University:

Instructor in (Analytical/Inorganic Chemistry), 1988-90

Teaching/Research Assistant in Analytical/Inorganic Chemistry, 1984-88

Taught Courses in General, Analytical, Inorganic and Solid State Chemistry

AWARDS:

NASA Langley Research Center, Certificate of Recognition for the invention of Templated Growth of Carbon Nanotubes, **2008**.

Sigma Xi Research Society, Certificate of Recognition presented by Tidewater Virginia Chapter, May 2005.

NASA Faculty Fellowship, Summer 2004.

NASA Faculty Fellowship Certificate of Recognition, Summer 2004.

Christopher Newport University Teaching Fellow, 2001-2002

NASA/ASEE Faculty Fellowship, Summer 2001.

NASA/ASEE Faculty Fellowship, Summer 2000.

NATO Travel Award, 1996.

Inorganic Division Award for Research Excellence, Northeastern University, 1993.
First Prize, Physical Sciences Division, American Association of Advancement of Science
AAAS National Meeting, Boston, 1993.
Excellence in Teaching Award, Department of Chemistry, Northeastern University, 1992.
NSF Travel Award, 1992.
Gustav Geissen Research Award, Northeastern University, 1991.

PROJECTS IN PROGRESS:

- Green Processing of Metals Surfaces for Biomedical Applications
- Synthesis of Nanomaterials and their Integration to Electronic devices for Biomedical Applications
- Manufacturing of Functionalized Nano-Channels for Novel Electro-Osmotic Pumps
- Integration of Nanomaterials with Conjugated Polymer to Improve the Efficiency of Organic Photovoltaic Cells
- Nanomaterials to Enhance Electrochemotherapy for Cancer Therapy

PATENT APPLICATIONS:

“Templated growth of carbon nanotubes” Siochi, Emilie; Abdel-Fattah, Tarek, *U.S. Patent* 7,169,374.

“Templated growth of carbon nanotubes” Siochi, Emilie J.; Abdel-Fattah, Tarek. PCT Int. Appl. (2005), 15 pp. CODEN: PIXXD2 WO 2005113871 A2 20051201 CAN 144:10116 AN 2005:1262727

“Metal Containing Catalysts and Methods for Making Same” by T. M. Abdel-Fattah, G.Davies and K.J. Balkus, Jr., *U.S. Patent* 5,849,652

“Metal Remediation Using A Mesoporous Nanocomposites” Tarek M. Abdel-Fattah, Larry K. Isaacs, *U.S. Patent*, Submitted.

SELLECTED PUBLICATIONS:

“Synthesis and characterization of nanosized metal complexes via crystal growth by thin film formation of 8-quinolinolate with Fe(III), Ni(II), Cu(II) and Zn(II) ions” M. E. Mahmoud, S. S. Haggag and T. M. Abdel-Fattah, *Polyhedron*, Accepted.

"Synthesis of Zirconia and Hafnia Tubes by Atomic Layer Deposition (ALD) Template Method" Tarek M. Abdel-Fattah, Diefeng Gu, Helmut Baumgart and Gon Namkoong, has been reviewed and accepted for publication in *Electrochemical Society Transactions*, 16(4), 159-164 (2008).

"Synthesis, Characterization and Metal Chelating Properties of Silica-Physisorbed and Chemisorbed-2,5-Dioxypiperazine" M. E. Mahmoud, S. S. Haggag and T. M. Abdel-Fattah, *Polyhedron*, 14(31) 3956-3962 (2007)

“Pyrolytic Synthesis of Carbon Nanotubes from Sucrose on a Mesoporous Silicate” . Abdel-Fattah, Tarek; Siochi, Emilie; Crooks, Roy, *Fullerenes, Nanotubes, and Carbon Nanostructures*, 14(4), 585-594 (2006).

“Adsorption of Arsenate and Arsenite by Iron treated Activated Carbon and Zeolites; Effects of pH, Temperature, and Ionic Strength” by K. B. Payne and T. M. Abdel-Fattah, *Journal Environmental Science and Health, Part A*, A40(4), 723 (2005).

“Organo-Silicate Nanocomposites for the Removal of Chlorinated Phenols from Aqueous Media: Kinetics and Environmental Stability” by T. M. Abdel-Fattah and B. Bishop, *Journal Environmental Science and Health, Part A*, A39(11), 2855 (2004)

“Adsorption of Divalent Lead ions by Zeolites and Activated Carbon: Effect of pH, Temperature, and Ionic Strength” by K. B. Payne and T. M. Abdel-Fattah, *Journal Environmental Science and Health, Part A*, A39(9), 2275 (2004)

“Small Arms Range Lead Management Issues; Activated Carbon, Molecular Sieves (5A and 13X) and Naturally Occurring Zeolites as Lead Adsorbents” T. M. Abdel-Fattah, L. K. Isaacs and Kelly B. Payne, *Federal Facilities Environmental Journal*, 14(2), 113 (2003)

“Supramolecular Assembly of Mesoporous Tin Oxide,” by K.G. Severin, T. M. Abdel-Fattah and T.J. Pinnavaia, *J. Chem. Soc., Chem. Commun.*, 1471 (1998)

“Molecular Catalysts Design. Synthesis, Characterization and Properties of Zeolites NaY Catalysts Made with a Tetranuclear Copper(II) Complex,” by T. M. Abdel-Fattah, G. Davies, B.V. Romanovsky, O.L. Shakanovskaya, A.L. Jansen and M.J. Palmieri, Jr., *Catalysis Today*, 33, 313 (1997)

“Tin-Substituted Mesoporous Silica Molecular Sieve (Sn-HMS): Synthesis and Properties as a Heterogeneous Catalyst for Lactide Ring-Opening Polymerization,” by T. M. Abdel-Fattah and T.J. Pinnavaia, *J. Chem. Soc., Chem. Commun.*, 665 (1996)

“Treatment of Dehydrated Na-Y Zeolite with the Heteropolymetallic Products of Transmetalation Reactions,” by T. M. Abdel-Fattah and G. Davies, in *Multifunctional Mesoporous Inorganic Solids*, C.A.C. Sequiera and M.J. Hudson, Eds., Kluwer, Dodrecht, 1993, p. 121-126.

CONFERENCE PROCEEDINGS:

“Ulcerative Shell Disease (USD) and Its Possible Relation to The Bioaccumulation of Lead (Pb) in Aquatic Turtles in an Urban Lake” Brian E. Bishop, Barbara A. Savitzky and Tarek Abdel-Fattah, *Proceeding of Virginia/West Virginia Water Research Symposium 2007, Connecting Management to Aquatic Communities*, Ana Constantinescu Eds, P.182 (2007)

“Temperature effect on the sorption of chlorinated phenols onto organo-silicate nanocomposites from an aqueous media.” Abdel-Fattah, Tarek; Bishop, Brian; Johansen, Valerie; Han, Sandy. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2006), 46(1), 470-473.

“Nanomaterials for environmental remediation” Abdel-Fattah, Tarek Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry (2005), 45(2), 828-831”

“Mechanism of arsenate and arsenite removal by iron treated activated carbon and zeolites” by T.M. Abdel-Fattah and K.B. Payne. *Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry*, 45(1), 412 (2005).

“Adsorption of Divalent Lead ions by Zeolites and Activated Carbon: Effect of pH, Ionic Strength, and Temperature” by T. M. Abdel-Fattah and K. B. Payne, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 44(1), 172 (2004)

“Screening of Lead Ion Adsorbents in Aqueous Media” T. M. Abdel-Fattah, L. K. Isaacs and Kelly B. Payne, *Proceeding of Virginia Water Research Symposium 2003, Water Research Management for Commonwealth*, Jane Walker and Judy Poff Eds., P.144 (2003)

“Using Organo-Silicate Nanocomposites for Aqueous Lead Species Removal” by T. M. Abdel-Fattah and L. K. Isaacs, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 43(1), 1138 (2003)

“Kinetic and Environmental Stability of Organo-Silicate Nanocomposites for the Removal of Chlorinated Phenols from Aqueous Media” by T. M. Abdel-Fattah and B. Bishop, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 42(2), 357 (2002)

“Novel Organo-Silicate Composites for Removal of Chlorinated Phenols from Aqueous Media” by T. M. Abdel-Fattah, B. Bishop and P. E. Grunow, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 42(1), 148 (2002)

“Screening of Low-Cost Adsorbents for Lead Removal” by T. M. Abdel-Fattah and K. Payne, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 41(1), 244 (2001)

“Adsorbent Materials for Fluoride Removal from Drinking Water,” by T. M. Abdel-Fattah and T. Edwards, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 40(2), 78 (2000)

“Screening of Low-Cost Adsorbents for Arsenic Removal,” by T. M. Abdel-Fattah, A.Z. Ansari and T.C. Voice, *Prepr. Ext. Abstr. ACS Natl. Meet. Amer. Chem. Soc. Div. Environ. Chem.* 40(1), 422 (2000)

PRESENTATIONS:

“Synthesis and characterization of nanosized metal complexes via crystal growth by thin film formation of 8-quinolinolate with Fe(III), Ni(II), Cu(II) and Zn(II) ions” 235th ACS National Meeting, New Orleans, LA, United States, April 6-10, 2008.

“Silica-modified-amine and choline chloride derivatives for dual removal and selective extraction of toxic heavy metal cations and metal oxyanions” 235th ACS National Meeting, New Orleans, LA, United States, April 6-10, 2008.

“Synthesis and analytical applications of nanoporous silica-modified-thiol moiety for selective metal binding and extraction” 235th ACS National Meeting, New Orleans, LA, United States, April 6-10, 2008.

“Renewable Energy and Alternative Fuels” Sigma Xi and NASA Science Café, September 22, Newport News, VA, 2007.

“Green process for niobium superconducting radio frequency cavities” Tarek Abdel-Fattah, 11th Annual Green Chemistry and Engineering Conference, American Chemical Society, Washington, DC, June 28, 2007.

“Nanomaterials as Drug Delivery System” Abdel-Fattah, Tarek M.; 2nd Annual Cancer Nanobiology Think Tank, National Institute of Health (NIH), National Cancer Institute, Frederick, MD Bldg. 549 Auditorium, May 24, 2007.

“Novel Surface Treatments for RRR Niobium” Roy Crooks, Michael J. Kaufman and Tarek Abdel-Fattah; RF Superconducting Materials Workshop at Fermilab, May 23, 2007, Fermi National Accelerator Laboratory, IL.

“Green Chemistry for Niobium Processing” Tarek Abdel-Fattah and Roy Crooks, Applied Research Center (ARC) Open House, April 21 2007, Jefferson National Lab, Newport News, VA.

“Temperature effect on the sorption of chlorinated phenols onto organo-silicate nanocomposites from an aqueous media.” Abdel-Fattah, Tarek M.; Bishop, Brian; Johansen, Valerie; Han, Sandy. Abstracts of Papers, 231st ACS National Meeting, Atlanta, GA, United States, March 26-30, 2006 (2006)

“Nanoporous Materials for Environmental Remediation” Abdel-Fattah, Tarek M.; American Chemical Society (ACS) Hampton Road Section, Christopher Newport University, Newport News, VA, March 21 (2006)

“Nanomaterials for Environmental Remediation” ” by T. M. Abdel-Fattah in Materials Research Society (MRS) Meeting, Boston, MA, U.S.A., December, 2005.

“Nanoporous materials for Environmental Remediation” ” by T. M. Abdel-Fattah, Thomas Nelson Community College, Hampton, Virginia, National Chemistry Week, October, 2005.

“Nanomaterials for Environmental Remediation” ” by T. M. Abdel-Fattah in 230th ACS National Meeting, Washington, DC, U.S.A., August, 2005.

“Nanomaterials for Environmental Applications II” ” by T. M. Abdel-Fattah in Gordon Research Conference *in Zeolitic and Layered Materials*, Mont Holyoke College, Springfield, MA, USA, 2005.

“Nanomaterials for Environmental Applications I” ” by T. M. Abdel-Fattah in the Management of Abandoned Mines and the Bats That Depend on Them. Reno, Nevada, USA, May, 2005.

“Synthesis and Applications of Nanostructured Materials” by T. M. Abdel-Fattah, Sigma Xi Tidewater Chapter of Virginia Spring Forum titled “New Trends in Science and Engineering” on March 31, 2005 in the Alumni Room of the Students Center at CNU.

“Mechanism for Arsenic Removal by Iron-Treated Zeolites and Activated Carbon” by T. M. Abdel-Fattah and K. B. Payne, 229th ACS National Meeting, San Diego, CA, U.S.A., March, 2005.

“Synthesis and Applications of Nanostructured Materials” by T.M. Abdel-Fattah, Life Long Learning Society, Christopher Newport University, Newport News, Virginia, February, 2005.

“Nanomaterials for Environmental Applications” by T.M. Abdel-Fattah, in the Advanced Nanotechnology: 1st Symposium on Molecular Machine Systems. FORESIGHT INSTITUTE, Washington DC, USA, October 2004.

“Synthesis of Carbon Nanotubes Using Chemical Vapor Deposition” by T. M. Abdel-Fattah, Aerodynamics, Aerothermodynamics and Acoustics Competency, Advanced Modeling and Sensor Systems Branch, NASA Langley Research Center, Virginia, August 26, 2004.

“Synthesis of Carbon Nanotubes Using Chemical Vapor Deposition” by T. M. Abdel-Fattah, NASA Fellowship Program Presentation, NASA Langely Research Center, Virginia, August, 2004.

“Adsorption of Lead Ions by Organo-Silicate Nanocomposites” by T. M. Abdel-Fattah and L. Isaacs, The 82nd Virginia Academy of Science Annual Meeting, Virginia Commonwealth University, Richmond, Virginia, U.S.A., May, 2004.

“Arsenic Removal from Water Using Iron Modified Adsorbents” by T. M. Abdel-Fattah and K. B. Payne, The 82nd Virginia Academy of Science Annual Meeting, Virginia Commonwealth University, Richmond, Virginia, U.S.A., May, 2004.

“Adsorption of Divalent Lead ions by Zeolites and Activated Carbon: Effect of pH, Ionic Strength, and Temperature” by T. M. Abdel-Fattah and K. B. Payne, 227th ACS National Meeting, Anaheim, CA, U.S.A., March, 2004.

“Screening of Lead Ion Adsorbents in Aqueous Media” T. M. Abdel-Fattah, L. K. Isaacs and Kelly B. Payne, *Virginia Water Research Symposium 2003, Water Research Management for Commonwealth*, Virginia Tech, Blacksburg, Virginia, October, 2003

“Using Organo-Silicate Nanocomposites for Aqueous Lead Species Removal” by T. M. Abdel-Fattah and L. K. Isaacs, 225th ACS National Meeting, New Orleans, U.S.A., March, 2003.

“Modified Adsorbents for 2,4-Dichlorophenol from Aqueous Solution” by E. Faulkenberry and T. M. Abdel-Fattah, the 81st Virginia Academy of Science Annual Meeting, University of Virginia, Virginia, U.S.A., May, 2003.

“Adsorption of Lead Ions by Organo-Silicate Nanocomposites” by T. M. Abdel-Fattah and L. K. Isaacs, the 81st Virginia Academy of Science Annual Meeting, University of Virginia, Virginia, U.S.A., May, 2003

“Adsorption of Divalent Lead Ions by Zeolites and Activated Carbon” by T. M. Abdel-Fattah and K. B. Payne, the 81st Virginia Academy of Science Annual Meeting, University of Virginia, Virginia, U.S.A., May, 2003.

“Surface Modification Zeolites for Removal of 2,4-Dichlorophenol” by T. M. Abdel-Fattah and B. Bishop, the 81st Virginia Academy of Science Annual Meeting, University of Virginia, Virginia, U.S.A., May, 2003.

“Tips from the Lilly Conference” by T. Abdel-Fattah, P. Pringle, C. Scovotti, 1st Faculty Conference on Teaching Scholarship and Research, Christopher Newport University, Virginia, August, 2002.

“Kinetic and Environmental Stability of Organo-Silicate Nanocomposites for the Removal of Chlorinated Phenols from Aqueous Media” by T. M. Abdel-Fattah and B. Bishop, 224th ACS National Meeting, Boston, U.S.A., August, 2002.

“Design Synthesis of Nanostructured Catalysts and Adsorbents” by T. M. Abdel-Fattah, NATO Advanced Study Institute, Heraklion, Crete, Greece, July-August, 2002.

“Modification of Low-Cost Adsorbents for Chromate Removal from Aqueous Media” by J. Butler and T. M. Abdel-Fattah, The 80th Virginia Academy of Science Annual Meeting, Hampton University, Virginia, U.S.A., May, 2002.

“Novel Organo-Silicate Composites for Removal of Chlorinated Phenols from Aqueous Media” by T. M. Abdel-Fattah, Brian Bishop and Patricia E. Grunow, 223rd ACS National Meeting, Orlando, U.S.A., April, 2002.

“Adsorbent Materials for Water Purification” by T. M. Abdel-Fattah, 14th Annual Conference on Science and Technology, Christopher Newport University, Virginia, August, 2001.

“Screening of Low-Cost Adsorbents for Lead Removal” by T. M. Abdel-Fattah and K. B. Payne, 221st ACS National Meeting, San Diego, U.S.A., April, 2001.

“Oxidative-Resistive Coating on Carbon-Carbon Composites for Aerospace Applications,” by T. M. Abdel-Fattah, ASEE Fellowship Presentation, NASA Langley Research Center, Virginia, August, 2000.

“Screening of Low-Cost Adsorbents for Arsenic Removal” by T. M. Abdel-Fattah, A.Z. Ansari and T.C. Voice, 219th ACS National Meeting, San Francisco, U.S.A., March, 2000.

“Surface Functionalization of Metal - Substituted Mesoporous Silica Molecular Sieve (M-HMS) as a Heterogeneous Catalysts for Biodegradable Polymers” by T. M. Abdel-Fattah and T. Pinnavaia, NATO Advanced Study Institute, Digiby, Nova Scotia, Canada, September, 1996.

“Surface Modifications of Tin - Substituted Mesoporous Silica Molecular Sieve (Sn-HMS) as a Heterogeneous Catalysts for Lactide Ring-Opening Polymerization,” by T. M. Abdel-Fattah and T. Pinnavaia, Tenth Annual CFMR/Industry Symposium, Michigan, U.S.A., April, 1996.

“Highly Active Zeolite-Supported Copper(II) Oxide Catalysts,” by G. Davies, T. M. Abdel-Fattah, B.V. Romanovsky, 210th ACS National Meeting, Chicago, U.S.A., August, 1995.

“Heterogeneous Catalysts for Dilactide Polymerization,” by T. M. Abdel-Fattah and T. Pinnavaia, Ninth Annual CFMR/Industry Symposium, Michigan, U.S.A., April, 1995.

“Zeolite-Encapsulated Heteropolymetallic Catalysts Made from Transmetalation Products,” by T. M. Abdel-Fattah, G. Davies, K.J. Balkus, Jr. and J. Leiton, AAAS National Meeting, Boston, U.S.A., February, 1993.

“Highly Selective Zeolite-Encapsulated Heteropolymetallic Catalysts Made from Transmetalation Products,” by T. M. Abdel-Fattah, G. Davies, K.J. Balkus, Jr. and J. Leiton, Barnett Institute Science Day, Boston, U.S.A., April, 1993.

“Highly Selective Zeolite-Encapsulated Heteropolymetallic Catalysts Made from Transmetalation Products,” by T. M. Abdel-Fattah, G. Davies, K.J. Balkus, Jr. and J. Leiton, ACS Regional Meeting, Boston, U.S.A., June, 1993.

“Treatment of Dehydrated Na-Y Zeolite with the Heteropolymetallic Products of Transmetalation Reactions II,” by T. M. Abdel-Fattah and G. Davies, NATO Advanced Study Institute, Sintra, Portugal, April, 1992.

“Treatment of Dehydrated Na-Y Zeolite with the Heteropolymetallic Products of Transmetalation Reactions I,” by T. M. Abdel-Fattah and G. Davies, ACS Symposium on New Materials, University of Rochester, U.S.A., November, 1991.

STUDENTS RESEARCH PRESENTATIONS

“Nanostructured Organic Composite Photovoltaic Cells” Sri Sabarinadh Sunkavalli, Gon Namkoong and Tarek Abdel-Fattah, the Sigma Xi 10th Annual Student Research Poster Session, Christopher Newport University, VA, November 14, 2008.

“Non-Acidic Electrochemical Polishing of Some Metallic Alloys” Derek Loftis and Tarek Abdel-Fattah, the Sigma Xi 10th Annual Student Research Poster Session, Christopher Newport University, VA, November 14, 2008.

“Electric Field Effect on Cation Exchange in Zeolites” Omar H. Elsayed_Ali. Tarek Abdel-Fattah, Wei Cao and Hanie Elsayed-Ali, the Sigma Xi 10th Annual Student Research Poster Session, Christopher Newport University, VA, November 14, 2008.

“Effects of pH on the Morphologies of Nanostructured ZnO Thinfilms” Stuart VonCanon, Jason Safko, Kurniawan Foe, Gon Namkoong, and Tarek Abdel-Fattah, the Sigma Xi 10th Annual Student Research Poster Session, Christopher Newport University, VA, November 14, 2008.

“Characterization of Doped and Undoped Nanostructured ZnO Thinfilms at Different Synthesis Conditions” Kurniawan Foe, Stuart VonCanon, Jason Safko, Gon Namkoong, and Tarek Abdel-Fattah, the Sigma Xi 10th Annual Student Research Poster Session, Christopher Newport University, VA, November 14, 2008.

“Synthesis of High quality Anodic Aluminum oxide (AAO) Nanopores with Controllable Aspect Ratio” Sampath Chennuri, Gon Namkoong, Tarek Abdel-Fattah, Sri Sabarinadh Sunkavalli, and Kurniawan Foe, the Sigma Xi 10th Annual Student Research Poster Session, Christopher Newport University, VA, November 14, 2008.

“Cobalt and Chromium Removal from Aqueous Solutions Using Various Absorbents” Sergio Navarrete, Tony Montalto and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2008.

“Using Nanoporous Materials for Drug Delivery” Lawrence A. Montalto, Sergio Navarrete and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2008.

“Fabrication of Solar Cells Using Hybrid Nanostructured inorganic/organic materials” Srisabarinadh Sunkavalli, Gon Namkoong and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2008.

“Synthesis and Characterization of Some Nanomaterials” Sarah Tipton, Lenora Harper and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2008.

“Synthesis and Characterization Silver Nanorods Using Anodic Aluminum Oxide as Template” Sampath Chennuri, Gon Namkoong and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2008.

“Electrochemical Deposition of Niobium Film over Copper” Derek Loftes and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2008.

“Ulcerative Shell Disease (USD) and Its Possible Relation to The Bioaccumulation of Lead (Pb) in Aquatic Turtles in an Urban Lake” Brian E. Bishop, Barbara A. Savitzky and Tarek Abdel-Fattah, *Proceeding of Virginia/West Virginia Water Research Symposium 2007, Connecting Management to Aquatic Communities*, November 26-30, Blacksburg, VA, 2007

“Electrochemical Deposition of Niobium Film Over Copper Surface” Derek Lotis and Tarek Abdel-Fattah, the Sigma Xi 9th Annual Student Research Poster Session, Christopher Newport University, VA, November 16, 2007.

“Silica Gel as Adsorbent for Heavy Metals Removal from Aqueous Media” Yossra H. Abouatta, Mohamed H. Aboulatta and Tarek Abdel-Fattah, the Sigma Xi 9th Annual Student Research Poster Session, Christopher Newport University, VA, November 16, 2007.

“Heavy Metals Remediation Using Electrokinetic Technique” Alya H. Elsayed-Ali, Hani Elsaid-Ali and Tarek Abdel-Fattah, the Sigma Xi 9th Annual Student Research Poster Session, Christopher Newport University, VA, November 16, 2007.

“Effect of Initial Soil pH on Copper ion Transport in an Electrokinetic Cell” Alya H. Elsayed-Ali, Hani Elsaid-Ali and Tarek Abdel-Fattah, 9th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2007*, Sweet Briar, Virginia, U.S.A., 6 October, 2007.

“Study of Adsorbent Materials for Heavy Metals removal from Aqueous Media” Yossra H. Abouatta, Mohamed H. Aboulatta and Tarek Abdel-Fattah, 9th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2007*, Sweet Briar, Virginia, U.S.A., 6 October, 2007.

“Nano-Composites Materials as Adsorbents for Ibuprofen Removal from Aqueous Media” Sergio Navarrete, Lawrence Montalto and Tarek Abdel-Fattah, the 6th PAIDEIA, Christopher Newport University, VA, April 21 2007.

“Green Process for Niobium Electrochemical Polishing” Derek Loftis, Roy Crooks and Tarek Abdel-Fattah, the 5th PAIDEIA, Christopher Newport University, VA, April 21 2007.

“Accumulation and Adsorption of Chromate Remediation Using Nanocomposites” Amanda Ross and Tarek Abdel-Fattah, the 5th PAIDEIA, Christopher Newport University, April 21 2007.

“Nanomaterials Materials and Activated Carbon as Adsorbents for Cobalt(II) ions Removal from Aqueous Media” Lawrence Montalto, Sergio Navarrete and Tarek Abdel-Fattah, the Sigma Xi 8th Annual Student Research Poster Session, Christopher Newport University, VA, November 17 2006.

“Using Organosilicate Nanoporous Materials to Attenuate Metal Cations in Solution” Larry Isaacs and Tarek Abdel-Fattah, the Sigma Xi 8th Annual Student Research Poster Session, Christopher Newport University, VA, November 17 2006.

“Removal of Chromium (III) Ions from Aqueous Media” by Sergio Navarrete, Lawrence Montalato and T. M. Abdel-Fattah, the 5th PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2006.

“Removal of Cobalt Ions from Aqueous Media” by Lawrence Montalato, Sergio Navarrete and T. M. Abdel-Fattah, the 5th PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2006.

“4-Nonylphenole (C₁₅-H₂₄-O) Decreases the Maintenance of Bubble-Nests in Male Siamese Fighting Fish (*Betta splendens*)” by Heather Sutton, Molly Matthews, Aneta Leczycki, Jessica Parker, Rebecca McGowan, T. M. Abdel-Fattah and Andrew Velkey, the 5th PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2006.

“Removal of Arsenic from Water by Iron Modified Organo-Silicate Nanocomposite Material” by S. Harris and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 7th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2005.

“Nanocomposites for Chromate Removal from Aqueous Media” by Amanda Ross, Danielle Strickland, Mariana Tascheva and Tarek Abdel-Fattah, Sigma Xi and American Chemical

Society, The 7th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., November, 2005.

“Modification of Low-Cost Adsorbents for Perchlorate Removal from Aqueous Media” by Danielle Strickland, Amanda Ross, Mariana Tascheva and Tarek Abdel-Fattah, Sigma Xi and American Chemical Society, The 7th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., November, 2005.

“Removal of 2,4-Dichlorophenol from Aqueous Solutions Using Organo-Silicate Materials” by Mariana Tascheva, Amanda Ross, Danielle Strickland and Tarek Abdel-Fattah, Sigma Xi and American Chemical Society, The 7th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., November, 2005.

“A Survey and Comparison of Ulcerative Shell Disease and Trace Metal Bioaccumulation in Aquatic Turtle Species in an Urban Lake” by Brian Bishop, T. M. Abdel-Fattah and Barbara Savitzky, Sigma Xi and American Chemical Society, The 7th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2005.

“Effects of 4-Nonylphenole (C₁₅-H₂₄-O) on Bubble-Nesting Behaviors in Male *Betta splendens*” by Molly Matthews, Heather Sutton, Rebecca McGowan, Jessica Parker, T. M. Abdel-Fattah and Andrew Velkey, Sigma Xi and American Chemical Society, The 7th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2005.

“Modification of Low-Cost Adsorbents for Perchlorate Removal from Aqueous Media” by Danielle Strickland, Amanda Ross, Mariana Tascheva and Tarek Abdel-Fattah, 7th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2005*, Sweet Briar, Virginia, U.S.A., October, 2005.

“Removal of 2,4-Dichlorophenol from Aqueous Solutions Using Organo-Silicate Materials” by Mariana Tascheva, Amanda Ross, Danielle Strickland and Tarek Abdel-Fattah, 7th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2005*, Sweet Briar, Virginia, U.S.A., October, 2005.

“Nanocomposites for Chromate Removal from Aqueous Media” by Amanda Ross, Danielle Strickland, Mariana Tascheva and Tarek Abdel-Fattah, 7th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2005*, Sweet Briar, Virginia, U.S.A., October, 2005.

“Mechanism of Arsenate and Arsenite Removal by Iron Treated Activated Carbon and Zeolites” by K. Payne and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 6th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., November, 2004.

“Temperature Effect on Adsorbance Capabilities for Chlorinated Phenols of Nanocomposite Materials” Sandy Han, Valerie Johansen, Brian Bishop and T. M. Abdel-Fattah, The 82nd Virginia Academy of Science Annual Meeting, Virginia Commonwealth University, Richmond, Virginia, U.S.A., May, 2004.

“Isotherm Study of Surfactant Modified Adsorbents for Removal of 2,4-Dichlorophenol from Aqueous Solutions” V. Johansen, S. Han and T. M. Abdel-Fattah, The 82nd Virginia

Academy of Science Annual Meeting, Virginia Commonwealth University, Richmond, Virginia, U.S.A., May, 2004.

“Capabilities and Stability of Organosilicate Nanocomposites Materials to remove and Retain Chlorinated Phenols in an Aqueous Media” B. Bishop, E. Faulkenberry, S. Han, V. Johansen, Tarek Abdel-Fattah, the 3rd PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2004.

“Removal of Arsenic from Aqueous Media Using Organo-Silicate Nanocomposite Material” by S. Harris and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 5th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2003.

“Removal of Arsenate and Arsenite from Aqueous Solution Using Modified Low-Cost Adsorbents” by K. Payne and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 5th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2003.

“Study of Surfactant Modified Adsorbents for Removal of 2,4-Dichlorophenol from Aqueous Solutions” by S. Han, V. Johansen and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 5th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2003.

“Temperature Effect on Adsorbance Capabilities of Chlorinated Phenols with Nanocomposite Materials” by B. Bishop, V. Johansen, S. Han and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 5th Annual Student Research Poster, Christopher Newport University, Virginia, U.S.A., October, 2003.

“Organo-Silicates Nanocomposite for the Removal of 2,4-Dichlorophenol from Aqueous Media” by S. Han, B. Bishop, V. Johansen and T. M. Abdel-Fattah, 5th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2003*, Sweet Briar, Virginia, U.S.A., October, 2003.

“Isotherm Study of Surfactant Modified Adsorbents for the Removal of 2,4-Dichlorophenol from Aqueous Media” by V. Johansen, S. Han and T. M. Abdel-Fattah, 5th Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2003*, Sweet Briar, Virginia, U.S.A., October, 2003.

“Nanocomposite Material for Arsenic Removal from Aqueous Media” by S. Harris and T. M. Abdel-Fattah, the 81st Virginia Academy of Science Annual Meeting, University of Virginia, Virginia, U.S.A., May, 2003.

“Arsenic Adsorption by Novel Organo-Silicate Nanocomposites” by S. Harris and T. M. Abdel-Fattah, the 2nd PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2003.

“Lead Immobilization in Soil and Storm water from a Small Arms Range Using Phosphate, Sedimentation, Filtration, and Organo-Silicate Nanocomposite Adsorption Treatment” by L. K. Isaacs and T. M. Abdel-Fattah, the 2nd PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2003.

“Using Modified Low-Cost Adsorbents to Remove 2,4-Dichlorophenol from Aqueous Solution” by E. Faulkenberry and T. M. Abdel-Fattah, the 2nd PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2003.

“Kinetic and Adsorption Models for Sorption of Cadmium on Low-Cost Adsorbents” by K. Payne and T. M. Abdel-Fattah, The 80th Virginia Academy of Science Annual Meeting, Hampton University, Virginia, U.S.A., May, 2002.

“The Removal of Fluoride from Drinking Water With Low-Cost Adsorbent Materials” by T. Edwards and T. M. Abdel-Fattah, The 80th Virginia Academy of Science Annual Meeting, Hampton University, Virginia, U.S.A., May, 2002.

“Remediation of Hg(II) Aqueous Solution Using Low-Cost Adsorbents” by S. Harris and T. M. Abdel-Fattah, The 80th Virginia Academy of Science Annual Meeting, Hampton University, Virginia, U.S.A., May, 2002.

“Use of Organo-Silicate Nanocomposites for the Removal of Dichlorophenols from Water” by B. Bishop and T. M. Abdel-Fattah, The 80th Virginia Academy of Science Annual Meeting, Hampton University, Virginia, U.S.A., May, 2002.

“Modification of Low-Cost Adsorbents for Chromate Removal from Aqueous Media” by J. Butler and T. M. Abdel-Fattah, The 80th Virginia Academy of Science Annual Meeting, Hampton University, Virginia, U.S.A., May, 2002.

“Kinetic and Adsorption Models for Sorption of Lead on Low-Cost Adsorbents” by K. Payne and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2002.

“Affinity Study of Organo-Silicates Nanocomposites for Dichlorophenoles in Aqueous Solution” by B. Bishop and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2002.

“Removal of 2,4-Dichlorophenole from Aqueous Solutions Using Organo-Silicates: Equilibrium Studies” by B. Bishop and T. M. Abdel-Fattah, The 1st PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2002.

“Remediation of Mercury Using Low-Cost Adsorbents” by S. Harris and T. M. Abdel-Fattah, The 1st PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2002.

“Modification of Low-Cost Adsorbents for Chromate Removal from Aqueous Media” by J. Butler and T. M. Abdel-Fattah, The 1st PAIDEIA, Christopher Newport University, Virginia, U.S.A., April, 2002.

“Adsorbent Materials For Fluoride Removal From Drinking Water” by T. M. Abdel-Fattah and T. Edwards, 3rd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2001*, Sweet Briar, Virginia, U.S.A., October, 2001.

“Study Of Adsorbent Materials For Cadmium Removal From Aqueous Media” by T. M. Abdel-Fattah and M. Boghea, 3rd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2001*, Sweet Briar, Virginia, U.S.A., October, 2001.

“Removal Of 2,4-Dichlorophenol From Aqueous Solution Using Composite Materials” by T. M. Abdel-Fattah and B. Bishop, 3rd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2001*, Sweet Briar, Virginia, U.S.A., October, 2001.

“Modification of Low-Cost Adsorbents for Chromate Removal From Aqueous Media” by T. M. Abdel-Fattah and W. Crockett, 3rd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2001*, Sweet Briar, Virginia, U.S.A., October, 2001.

“Screening of Low-Cost Adsorbents for Lead Removal” by K. Payne and T. M. Abdel-Fattah, The 79th Virginia Academy of Science Annual Meeting, James Madison University, Virginia, U.S.A., May, 2001.

“Uptake of Iron by Low-Cost Adsorbents” by J. Hitt and T. M. Abdel-Fattah, The 79th Virginia Academy of Science Annual Meeting, James Madison University, Virginia, U.S.A., May, 2001.

“Study of Low-Cost Adsorbents for Cadmium Removal from Aqueous Media” by M. Boghea and T. M. Abdel-Fattah, The 79th Virginia Academy of Science Annual Meeting, James Madison University, Virginia, U.S.A., May, 2001.

“Removal of 2,4-Dichlorophenol from Aqueous Solutions Using Low-Cost Adsorbents” by B. Bishop and T. M. Abdel-Fattah, CNU Undergraduate Research Conference, Christopher Newport University, Virginia, U.S.A., May, 2001.

“Screening of Adsorbent Materials for Cadmium Removal From Aqueous Media” by M. Boghea and T. M. Abdel-Fattah, CNU Undergraduate Research Conference, Christopher Newport University, Virginia, U.S.A., May, 2001.

“Remediation of Hg (II) Aqueous Solution Using Low-Cost Adsorbents” by S. Harris and T. M. Abdel-Fattah, CNU Undergraduate Research Conference, Christopher Newport University, Virginia, U.S.A., May, 2001.

“Removal of 2,4-Dichlorophenol from Aqueous Solutions Using Low-Cost Adsorbents” by B. Bishop and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2001.

“Screening of Adsorbent Materials for Cadmium Removal From Aqueous Media” by M. Boghea and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2001.

“Screening of Adsorbent Materials for Fluoride Removal From Drinking Water” by T. Edwards and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2001.

“Iron Modified Adsorbents for Fluoride Removal From Drinking Water” by J. Hitt and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2001.

“Modification of Low-Cost Adsorbents for Chromate Removal From Aqueous Media” by C. James and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2001.

“Study of Low-Cost Adsorbents for Lead Removal” by K. Payne and T. M. Abdel-Fattah, Sigma Xi and American Chemical Society, The 3rd Annual Student Research Poster, Old Dominion University, Virginia, U.S.A., March, 2001.

“Remediation of Hg (II) Aqueous Solution Using Low-Cost Adsorbents” by T. M. Abdel-Fattah and S. Harris, 2nd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2000*, Sweet Briar, Virginia, U.S.A., October, 2000.

“Study of Low-Cost Adsorbents for Cadmium Removal From Aqueous Media” by T. M. Abdel-Fattah and M. Boghea, 2nd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2000*, Sweet Briar, Virginia, U.S.A., October, 2000.

“Modification of Low-Cost Adsorbents for Fluoride Removal From Aqueous Media” by T. M. Abdel-Fattah, E. Tonicka and S. Matthew, 2nd Mid-Atlantic Regional Conference of Undergraduate Scholarship *MARCUS 2000*, Sweet Briar, Virginia, U.S.A., October, 2000.

“Adsorbent Materials for Fluoride Removal” by T. Edwards and T. M. Abdel-Fattah, CNU Undergraduate Research Conference, Christopher Newport University, U.S.A., May, 2000.

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

2006-Present	Executive Committee , Hampton Roads Research Partnership
2006-Present	Activity Chair , Sigma Xi Tidewater Chapter of Virginia
2006-Present	Chairman Elect , American Chemical Society, Hampton Roads section
2004-2005	President , Sigma Xi Scientific Society, Hampton Roads section
2003-2005	Member, organizing committee of the 5 th , 6 th , 7 th , 8 th and 9 th annual Sigma Xi Student Research Poster Session
2003-2004	President-elect , Sigma Xi Scientific Society, Hampton Roads section
2001-2004	Member, organizing committee of 1 st , 2 nd , 3 rd , and 4 th PAIDEIA conference for students' research
2000-Present	Member and Executive Committee Hampton Roads, Sigma Xi, Research Society
2000-Present	Member, Virginia Academy of Science
1994-1997	Member, Michigan Catalysis Society
1994-1997	Member, Materials Research Society
1991-Present	Member, American Chemical Society
2008-Present	Member, British Royal Chemical Society