**AHMIDA, PhD**

**Email:** ahmida.267718@2freemail.com

**Objectives:**

To secure a specializing position as aR&D chemist/electrochemist/QA& QC.

**Qualifications:**

* Extensive experience in research, analytical electrochemistry, polymers, surface and thin film coatings, corrosion and material chemical & physical characterization.
* Evaluate chemical, electronic and optical properties of new materials as well as theoretical chemical calculations.
* Knowledge of fuel cell systems and emissions control systems.
* Knowledge of process control, root cause analysis and continuous improvement methods ensuring that quality parameters are met.
* Proficient in chromatography (GC, HPLC & Thin layer), dissolution, UV-Vis, FT-IR, pH meter, total solids, viscosity,Ellipsometry, TGA, DSC, NMR, AFM, XPS, XRF and XRD.
* Knowledge and experience with maintenance and calibration of laboratory equipment.
* Develop and conduct programs of sampling and analysis and visual perception of color.
* Ability to use and understand QC and QA analysis of batches of finished goods as per applicable standard operating procedures SOPs.
* Knowledge of safety and quality regulations, WHMIS, ISO, EPA, FDA as well as GMP.
* Professional in factory-level customer support on-site, via phone, email, etc.
* Knowledgeable in software applications such as LIMS, ChemDraw, LabView, ISIS- Draw, Origin, EndNote, Unix& Linux, SSH Secure shell, and Gaussian 03 package.
* Excellent leadership, communication &time management skills

**Education:**

**PhD in Electrochemistry,** University of Windsor, Windsor, ON **2007 – 2012**

Area of Expertise: "Electrochemical Characterizations & Surface characterizations and Coatings "Dissertation title: *Electronic Properties and Langmuir-Blodgett Films of Discotic Organic Semiconductors”, under supervision of Dr. S. HolgerEichhorn, University of Windsor.*

**M. Sc. Degree in Chemistry**, University of Guelph, Guelph, ON **2004 – 2006**

Area of Expertise: "Organic Electrochemistry and surface characterizations" Thesis title: *"Sticky Dissociative Electron Transfer to a Series of Substituted AreneSulfenyl Chlorides", under supervision of Dr. AbdelazizHoumam, University of Guelph, Canada.*

**Experience:**

**Research Associate,** University of Windsor, Windsor, ON  **Nov. 2015-Present**

* Developed and characterized novel class of organic semiconductors and organic corrosion inhibitors.
* Supervise undergraduate students and train them to use many types of electrochemical equipment.
* Managing the electrochemical and surface equipment centre and computational studies.
* Development and design new organic–inorganic hybrid Sol-gel inhibitors for corrosion protection.
* Development of an electrochemical synthesis of organic conducting polymers.

**Quality Customer Advisor**, **Delphi Automotive**, Windsor, ON **June 2015- Present**

* Provide on-site consultation and technical assistance to the customer, regarding harnesses and wiring, service and scheduling, and ensure customer needs are assessed.
* Resolves customer complaints by identifying problems root cause and coordinating appropriate corrective action.
* Keep in touch with clients throughout the entire service process.
* Maintain the documentation on work orders and ensure required data has been collected and updated as necessary throughout the repair process.

**Technical Service/Consultant Chemist**, **Concussion Mitigation Technologies, LLC**, Colorado Springs, CO 80903 **2013 - Present**

* Development and supporting the Advanced Spectrographic scanner proposal and tech evaluations.
* Consultation with marketing, technical service and innovation.
* Management in development of strategies and plans.

**Field QC & Environmental Chemist, Remote Waste LP,** Sexsmith, AB **2014 - 2015**

* Monitoring and meeting internal quality standards (i.e: Safety & Environmental).
* Conduct laboratory tests and analyses and maintain basic laboratory testing equipment.
* Sampling and chemical testing of wastewater.
* Calibrate equipment prior to usage.
* Developing and maintaining Standard Operating Procedures.
* Applying quality control and quality assurance analysis.
* Generating and analyzing reports for water and wastewater treatment.
* Troubleshooting day-to-day operational issues and developing solutions.

**Environmental/Chemical Analyst, AGAT Laboratories,** Grande Prairie, Alberta **2013 - 2014**

* Testing and analyze the results of soil, petroleum hydrocarbons and water samples by GC/MS/FID.
* Applying quality control and quality assurance analysis as per applicable SOP.
* Determined equipment operating efficiency.
* Calibrated and troubleshot laboratory instruments.
* Conducted quality control tests and directed test procedures.

**Researcher, Lecturer and Lab Coordinator**, Sebha University, Libya **1994 – 2003**

* Responsible for leading and coordinating the laboratory
* Supervised laboratory work and taught proper use of chemicals and their interactions, danger signs, production techniques and disposal methods.
* Characterized and investigated the heavy metals in vegetable Samples for environmental aspect.

**Certification:**

* Valid safety certifications such as WHMIS, TDG, H2S Alive and First Aid.
* Alberta class 5 valid driver's license with a clean driver's abstract.

**Selected Publications:**

* ***Halide Effect in Electron Rich and Deficient Discotic Phthalocyanines,* Mohamed Ahmida**, Raymond Larocque, M. Sharif Ahmed, Alina Vacaru, Bertrand Donnio, Daniel Guillon and S. HolgerEichhorn, *J. Mater. Chem. (2010) 20, 1292 – 1303.*
* ***Synthesis, Mesomorphism and Electronic Properties of Nonaflate and Cyano Substituted Pentyloxy and 3-Methylbutyloxy Triphenylenes,*** Stuart J. Mahoney, **Mohamed Ahmida**, HimadriKayal, Nicholas Fox, Yo Shimizu and S. HolgerEichhorn, *J. Mater. Chem., 2009, 19, 9221-9232*.
* ***Face– and Edge–On Orientations of Octa–Acid and –Alcohol Substituted Tetraazaporphyrins in Langmuir and Langmuir-Blodgett Monolayers,* Mohamed Ahmida**, Scott Dufour, Hui-Sheng Li, HimadriKayal, Rolf Schmidt, Christine E. DeWolf and S. HolgerEichhorn, *Soft Matter, 2013, 9, 811-819****.***
* ***Columnar mesomorphism of fluorescent board‒shaped quinoxalinophenanthrophenazine derivatives with donor‒acceptor structure***, Chen Shuai, Farah Raad, Mohamed Ahmida, Bilal Kaafarani, Stephan Eichhorn, *Organic Letters, 2013,15(3),558-561*.
* ***Cross-linking of discotic tetraazaporphyrin dyes in 2 and 3 dimensions by “click” chemistry,*** HimadriKayal, **Mohamed Ahmida**, Scott Dufour and S. HolgerEichhorn***,*** *J. Mater. Chem. C, DOI:10.1039/C3TC31588F.*

**References Available Upon Request**

**Keywords:**

Polymers, Corrosion Inhibitors, Cathodic Protection, Catalysis, DFT Chemical Calculations, Electrochemical Characterization, Thermal Analysis, Spectroscopy, Brewster Angle Microscopy, Langmuir- Blodgett Film, Spin and Dip Coatings, Layer Thickness, EIS, Chronocoulometry and Cyclic Voltammetry, Conductivity, Ion Selective Electrodes, Continuous Flow Analyzers, Ion Chromatography (IC), Ellipsometry, Quality Control Analysis, Quality Assurance, GC/MS, GC/FID , HPLC, ICP, UV-Vis, FTIR, AA, EA, pH Meters, PVT, TLC, TGA, DSC, XRD, XPS, AFM and STM.