

# LUC GIRARD, Ph.D.

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## SUMMARY

PhD. Chemist with over 17 years' experience in lubricants, including White Mineral Oils, Base Oils/Process Oils technical sales, OEM business including PPAP/BMAP, APQP and Root Cause Analysis. Also experienced in formulation of White Mineral Oils, Base Oils, Process Oils, Hydraulic Oils, Automatic Transmission Fluids, Gear Oils and Passenger Car Engine Oils.

## GOALS

Develop repeat contract business with clients requiring assistance with process improvement, facilitation of inter-industry group meetings, training, strategic assessments and presentation development.

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## BUSINESS EXPERIENCE

### PRESENT: SANJURO SOLUTIONS

#### *Consultant*

- Offering services in functional improvement documentation, intergroup facilitation, technical evaluations, market evaluations, formulation, PPAP/BMAP, APQP and troubleshooting, all offered with a safety-first mindset.

### 1997 – 2014 PETRO-CANADA LUBRICANTS, a Suncor Energy business

2012-Present **Petro-Canada Lubricants Inc., R&D Centre** (Mississauga, ON)

#### *Manager/Research Associate, Core Products*

- ◆ Industry Liaison
  - Chair, API Lubricants Group. Petro-Canada Lubricants representative to SAE TC-1 and TC-3. Co-chair of AOAP (Group in charge of GF-6 PCEO category development) and a voting member at NCDT (Group in charge of development for PC-11 HDEO category.) Attend Heavy Duty and Passenger Car Engine Oil Classification Panels (ASTM).
- ◆ Formulation of driveline fluids
  - Formulate ATFs to meet the broad range of transmissions in the current market. Assist primary formulator of Automotive Gear Oils. Provide guidance to Sales, Technical Services and end users in the selection and use of these lubricants.
- ◆ Oversee reformulation program of Hydraulic Oils
  - Steer, coach and oversee the work of direct reports in a significant reformulation of the Petro-Canada Lubricants Inc. line of Zinc-based Hydraulic oils.

2005-2012 **Petro-Canada Lubricants Inc., Sales Office** (Mississauga, ON)

#### *Manager, OEM Technical Sales*

- ◆ Industry Liaison
  - Vice-chair, API Lubricants Group (2010-2012). Chair, Detroit Advisory Panel (2008-2010). PCLI representative to Base Oil Interchange/Viscosity Grade Read Across Task Force (2008-2012).
- ◆ Technical Sales

- APQP, PPAP/BMAP for OEMs and Tier 1 suppliers for Passenger Car Engine Oils, Automatic Transmission Fluids, Automotive Gear Lubricants. Root cause analyses, Corrective Action Request resolution. Liaison to OEMs and Tier 1s for new specifications.

2000-2005

**Petro-Canada Lubricants Inc., Sales Office** (Mississauga, ON)  
*Technical Advisor/Senior Technical Advisor, Non-Additized Products*  
*Base oils and Process Oils Sales Support*

- ◆ Pre- and Post-sale support
  - Provided guidance to users and prospective users of Petro-Canada Lubricants Base Oils and Process Oils (Transformer Oil, Drill Mud Base Fluid, Agricultural Spray Oils, etc.)

1998-2000

**Petro-Canada Lubricants Inc., R&D Centre** (Mississauga, ON)  
*Product Specialist, Core Products*

- ◆ Formulator of Tractor Hydraulic Fluids, Automotive Gear Oils, and Small-Engine Oils
  - Formulation of Commercial and Industrial products for transportation

1997-1998

**Petro-Canada Lubricants Inc., R&D Centre** (Mississauga, ON)  
*White Oils Development Chemist*

- ◆ Formulation and specification-setting for White Mineral Oils
  - Experimental work led to the re-design of a refinery operating block still in place today.
  - Created/implemented 100+ products when Petro-Canada entered into a supply-distribution agreement with Witco Corp.
- ◆ Pre- and Post-Sales support
  - Assisted external clients in formulation/applications work
  - Created a product/specifications database for internal clients

## EDUCATION:

- ◆ **Texas Tech University**, Lubbock, TX (1995-1997)
  - Post-doctoral appointment
  - Synthesis of water-soluble catalysts for amination and hydration of olefins
  - Removal of Gallium from Plutonium
  - Laid out and executed the conversion of an undergraduate teaching lab into a functioning research facility operating in a government framework.
- ◆ **Tulane University**, New Orleans, LA (1994-1995)
  - Post-doctoral appointment
  - Synthesis of water-soluble catalysts for amination and hydration of olefins
- ◆ **McMaster University**, Hamilton, ON, Canada (1992-1994)
  - Postdoctoral appointment
  - Operated laboratory while Principal Investigator on sabbatical leave
  - Various projects involving synthesis and/or Extended Hückel Molecular Orbital calculations on organometallic compounds
- ◆ **Queen's University**, Kingston, ON, Canada (1987-1992)
  - Ph.D. Thesis, "*Compounds Derived from ( $\eta^4$ -Trimethylenemethane)Fe(CO)<sub>3</sub>: Synthesis, Characterization and Molecular Dynamics*"
- ◆ **Bishop's University**, Lennoxville, QC, Canada (1984-1987)
  - B.Sc. (Hons) in Chemistry. Thesis: *Synthesis of carbamates using an azide transfer agent.*

## **LUC GIRARD (cont.)**

### **PROFESSIONAL MEMBERSHIPS:**

- ◆ SAE, ASTM, STLE

### **LANGUAGES**

Fully proficient in

- ◆ French
- ◆ English

### **INTERESTS:**

- ◆ Reading (esp. philosophy, art, classic fiction)
- ◆ Woodworking
- ◆ Travel (North America, South America, Europe, Asia)
- ◆ Avid collector of music and movies

### **REFERENCES AND PUBLICATIONS LIST:**

- ◆ Available on request