

Education

- Ph.D. (Chemistry) University of Newcastle, NSW Australia 1997.
M.Sc. (Chemistry) Tribhuvan University, Kathmandu Nepal 1987.

Experience

• Vice President of Technology, Yava Technologies Inc., Toronto, Canada		2008–Present
• Director of Research & Development, Yava Technologies Inc., Toronto, Canada		2004–2008
• Senior Industrial, Environmental, Chemical/Electrochemical, Computational and Analytical Chemistry Consultant		2001–2004
• Post-Doctoral Research Associate, University of Ottawa, Canada		1998–1999
• Research Associate, University of Newcastle, Australia		1994–1997
• Lecturer of Chemistry, Tribhuvan University, Nepal		1988–1993

Research Experience

• Directed Research & Development work in the areas of analytical chemistry, chemical engineering, in-situ leach mining, material science and environmental chemistry. • Developed several patent pending novel in-situ and ex-situ leach mining and advanced chemical/electrochemical processing technologies for the recovery of lead, zinc, manganese, calcium, copper, silver, gold, nickel, cobalt and molybdenum.		2004–Present
• Worked as a consultant chemist to resolve the most urgent chemical contamination and pollution problems. • Provided expert opinions in the areas of green chemistry, computational chemistry, environmental engineering and analytical chemistry.		2001–2004
• Synthesized advanced manganese dioxide battery materials. • Extensively worked on advancement of corrosion technology for Alcan Canada.		1998–1999
• Developed, characterized, interpreted and published advanced commercial grade manganese dioxide research outcome to be utilized in primary alkaline and rechargeable batteries in collaboration with BHP at the University of Newcastle, Australia. • Supervised undergraduate laboratory research and analytical		1994–1997

chemistry projects.		
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Teaching Experience

<ul style="list-style-type: none"> • Taught and supervised undergraduate chemistry courses and research projects at the University of Newcastle, Australia. 		1994-1997
<ul style="list-style-type: none"> • Taught physical, electrochemical and analytical chemistry courses at Tribhuvan University, Nepal. • Supervised research theses. 		1988-1993

Professional Awards

<ul style="list-style-type: none"> • Postgraduate Research Award, University of Newcastle, Australia. 		1994
<ul style="list-style-type: none"> • Represented Nepal as one of the South Asian young scholars for an Advanced Technical Training, Japan, Tokyo. 		1987
<ul style="list-style-type: none"> • Gold Medal for securing the highest position in M. Sc. Chemistry, Tribhuvan University, Nepal. 		1987

Skills

<ul style="list-style-type: none"> • Extensive analytical and problem solving skills. • Wide level of expertise in the use of chemical, electrochemical and analytical equipment functionalities. • More than a decade of supervisory experience in solving real world environmental problems related to chemical contaminants and Acid Mine Drainage (AMD). • Over a decade of industrial consultancy service experience in the areas of environmental chemistry, electrochemical projects, analytical chemistry and chemical engineering. • Advanced computer and database programming skills for writing advanced software programs to solve computational chemistry problems. • Obtained Information Technology Diploma from Information Technology Institute (ITI), Ottawa Canada (1999). • Special expertise in the development of green chemistry technologies to help solve pollution problems created by traditional mining practices.
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Publications/Presentations

- Dahal Madhav Prasad, Lawrance Geoffrey Alan, 'Oxidation of Iodide and Other Inorganic Ions Employing Nonomolybdomanganate Ion ($[\text{MnMo}_9\text{O}_{32}]^{6-}$) as Oxidant', Inorganic Reaction Mechanisms, 5 117 (2004)
- Dahal Madhav Prasad, Lawrance Geoffrey Alan, Maeder Marcel, 'Kinetics of heavy metal ion adsorption onto and proton release from electrolytic manganese dioxide', Adsorption Science & Technology, 16 39 (1998)
- Dahal Madhav Prasad, Lawrance Geoffrey Alan, Maeder Marcel, 'Variation in the Adsorption of Lead(II) by a Range of Electrolytic Manganese Dioxides: Chemometric Examination of Correlation with Physical Properties', Adsorption Science & Technology, 15 08 (1997)

Full List of publications/presentations available upon request.