

## PERSONAL PROFILE

- **INTEGRITY** With over 34 years of varied project management experience in the energy and industrial process sectors, Scot Merriam is a consensus builder who has consistently coordinated multi-discipline technical teams to achieve win-win results for all stakeholders.
- **INGENUITY** Resourceful, and a pathfinder by nature, Scot excels at navigating through the challenges of project constraints whether they be time related, resource related, budget related or permitting related. He is accountable and thorough, possesses a balanced combination of technical and interpersonal skills and is capable of working independently or in a team setting. A respected communicator, Scot is organized and sets high standards, always zeroing in on solutions and improving efficiency and quality. Going forward in his career, he is focused on applying his skills to developing teams and managing sustainable resource and clean energy projects that contribute to community wellness.
- **DEDICATION**
- **LEADERSHIP**

## CAREER EXPERIENCE

**July 2007 to Present – President/Principal of SRM Projects Ltd., a firm providing project management and team coaching services to the municipal, sustainable resource and clean energy sectors.**

### *PROJECT HIGHLIGHTS*

*2020 to 2021 – Wastewater Plant Maintenance Projects* – Provided project management services for a variety of maintenance jobs at the RDN's French Creek Pollution Control Center.

*2019 – Renewable Energy Resource Assessment* – Performed a screening level resource assessment for hydro, hydrokinetic, wind, solar, biomass/biogas, and geothermal energy for an off-grid community in NWT.

*2018 to 2019 – Wind Energy Resource Assessments* – Performed mesoscale wind energy resource assessments for the Mowachaht/Muchalaht, Quatsino, Tsal'alh and Penelakut first nations.

*2018 – Solar Energy Study* – Completed conceptual designs, annual average energy generation and high level cost estimates for three potential solar PV candidate buildings in the Village of Zeballos.

*2017 – Renewable Energy Resource Assessment* – Performed a screening level resource assessment for hydro, wind, solar, biomass/biogas, geothermal, tidal and wave energy for the City of Port Alberni.

*2017 – Small Dam Inspections* – Completed annual inspections for five small dams on Stuart Island for the Ritchie family.

*2015 to 2016 – Community Energy and Emissions Planning* – Project Engineer/Manager leading the Snuneymuxw and We Wai Kai First Nations community energy demand and GHG emissions assessments as well as screening studies for hydro, wind, solar, geothermal and marine renewable energy potential.

*2014 to 2015 – Hydropower Projects* – Project Engineer/Manager for two First Nations projects: the grid connected 4 MW Winchie Creek facility and a proposed off-grid 300 KW Wuikinuxv remote community facility near River's Inlet, BC. Budgets \$12MM and \$4MM respectively.

*2012 to 2016 – Tidal Energy Investigative Licensing & Phase 1 Assessment Activities* – Project engineer completing preliminary site selection, mapping and permitting documents for proposed tidal energy projects in 8 southwestern B.C. and 3 Haida Gwaii sites

*2012 – Celgar Green Energy Project 2* – Project Engineer assisting with preliminary scope development and budget cost estimating for a variety of pulp mill modifications proposed to help increase power generation.

*2011 to 2015 – Fourth Lake Dam Safety Review* – Managed a multi-discipline technical team to complete the DSR and performed annual inspections for Harmac Pulp Operation's Fourth Lake Dam. Budget \$250K

2010 to 2011 – *Celgar O<sub>2</sub> Delignification Upgrade* – Project Engineer/Manager for two stage upgrade Green Transformation Program project - Budget \$9.5MM.

2009 – *BC Hydro GMS G8 Isolated Phase Bus Upgrade* – Contractor QA engineer for installation of a new 13.8kV IPB on Generator 8 at BC Hydro's GM Shrum generating station at Williston Lake.

2007 to 2009 – *Sedan Creek Hydro* – Project Engineer/Manager for an 8MW run of river hydro project. Performed penstock modeling and coordinated preliminary studies/engineering and permitting. Budget \$25MM.

**August 1987 to June 2007 – Project Engineer, Pope and Talbot Ltd., Harmac Pulp Operations Nanaimo, B.C., a three line, 1,200 MTPD Kraft Pulp Mill**

*PRIMARY RESPONSIBILITIES - HARMAC*

Coordinated and engineered over 155 capital and maintenance projects with budgets to \$5.5MM, working with engineering staff or consultants. Duties involved assisting in project scope development, preparation of budget and Application for Expenditure, technical and equipment specifications, requests for proposals, comparison of proposals, purchase requisitions, detail/design engineering, shutdown and tie-in planning, scope of work or Call for Tenders, contract preparation and construction management or field engineering. Responsibilities included inspecting and maintaining the mill's water reservoir dam and water supply penstocks. Developed a broad knowledge of corrosion mechanisms. Project elements included tanks, pumps, mixers, piping up to 1.2 m diameter, pressure vessels, filters and heat exchangers, constructed of carbon steel, stainless steel, titanium, FRP and other materials as required for the service conditions.

*SELECTED PROJECT HIGHLIGHTS – HARMAC*

2005 to 2007 – *Penstock Renewal Phase I & II* – Coordinated an investigation into the condition of 8 km long wood-stave water penstocks, reviewed renewal strategies/materials and managed the first phase of renewal, which included 520 meters of 1.2 meter diameter fusion welded polyethylene pipe.

2004 to 2005 – *Tank Replacements* – Engineered and installed two new FRP process tanks and one new SS process tank to replace old concrete, tile lined vessels.

2003 to 2005 – *Concrete Building Repairs* – Spearheaded a program of rehabilitating deteriorated concrete structures, working with consultants and contractors to optimize methods and materials.

2002 – *Mill Realignment* – Coordinated a study to optimize production through partial rerouting of two out of three production lines and modifying a bleaching stage to OO configuration.

2000 to 2001 – *Continuous Pulp Digester Upgrades* – Coordinated the mechanical/piping portion of a field instrument and distributed control system upgrade on a Kamyr continuous digester (over fifty tie-ins). One year later, modified the digester steaming vessels and installed new bottom steaming pressure piping.

1999 to 2000 – *Heat Recovery Systems* – Installed spiral heat exchanger systems and controls in the Digester, Reausticizing and Bleaching areas to recover waste heat and reduce energy costs.

1998 to 1999 – *Bleach Plant Debottlenecking* – Upgraded existing equipment and installed new equipment in a pulp bleaching production line to increase production to match the rest of the mill and gain incremental production.

1996 to 1997 – *Bleach Plant Scrubbing Systems* – Installed FRP packed tower vent scrubbers on two pulp bleaching plants and a Chlorine Dioxide production plant to significantly reduce air emissions.

1994 to 1997 – *Elemental Chlorine Free Conversion* – Completed seven bleach plant subprojects to eliminate the need for the use of elemental Chlorine in pulp bleaching, including D<sub>0</sub> stage pH control, medium consistency D<sub>0</sub> bleaching and oxygen delignification.

1990 to 1993 – *Natural Gas Conversion* – Installed natural gas service piping, converted lime kiln burners from bunker C oil to natural gas and upgraded lime kiln internals to offset production loss.

**EDUCATION AND CONTINUING PROFESSIONAL DEVELOPMENT**

- **DEGREE** B.A.Sc. Mechanical Engineering, University of British Columbia, 1987
- **PROJECT MANAGEMENT** Managing Project Costs, Project Management, Giving & Receiving Criticism, Effective Supervision, Law of Contracting and Tendering, Project Financial Analysis, Organizational Quality Management
- **DESIGN/MAINTENANCE** Fundamentals of Power System Planning and Operation, Hydrotechnical Design of Coastal & Marine Structures, HEC-RAS River Hydraulics Modeling, Wind Power Design, Turbines & Power Generation, Turbomachines in Hydroelectric Plants, Rip-Rap Design, Compressed Air Systems Mgmt., Dam Inspection & Maintenance, Earthquake Engineering, ASME IX Welding Code, MC Pumping & Mixing, VFD's & Energy Efficient Pumping, Pulp Bleaching, Structural Steel Design, Control Valve Sizing, Lime Kiln Burners & Alignment, Pumps & Mechanical Seals
- **MATERIALS** Selection of Stainless Steels, Inspection & Specification of FRP
- **SAFETY** BC Hydro WPP Cat B, Process Hazards Analysis, Confined Space Entry, Ergonomics, Fall Protection, WHMIS
- **TOOLS & MISCELLANEOUS** Word, Excel, MS Project, PowerPoint, MS Publisher, Technical Writing, KT Problem Solving, Pursuit of Excellence, DOE webinar series on MHKD's (marine hydrokinetic energy devices)
- **AUTHORED PAPERS** Small Solar PV System Installation Specification (ESVI – 2017)  
Concrete Repair – Engineering Standard Practice (Harmac – 2007),  
PAPTAC Best Paper Award: "Keeping it Clean: Bleach Plant Air Emission Control at Harmac Pacific" (1998)

**PROFESSIONAL AND COMMUNITY INVOLVEMENT**

Past Member, *Engineers and Geoscientists B.C.* (retired December 31, 2021)

Volunteer and founding member, *Island Community Solar Cooperative*

Member and past director, *Marine Renewables Canada*

Member, *Engineers Without Borders*

Past Member/Executive, *Nanaimo Search and Rescue Society*. Developed the "Passive Confinement Attendant" to improve search success when searchers are limited. Initiated a strategic planning process to manage growth and provide direction.

Past Member/Executive (secretary, treasurer, vice chair, chair) and paper presenter, Pacific Coast Branch, *Pulp and Paper Technical Association of Canada*