



Jean-Robert Murat, ing., Ph.D.

Born :	May 3 rd 1947
Nationality :	French Canadian Swiss «permis C»
	Married with two children
Language	French, English
Present position :	Independent consultant & Expert Witness

Education

- ® 1969 B. SC. (Eng.) with honors
Institut National des Sciences Appliquées (INSA), Lyon, France
- ® 1971 M. SC. A. (Eng.)
Ecole Polytechnique of Montreal, Canada
- ® 1978 Ph.D.
Ecole Polytechnique de Montreal, Canada
- ® 1993 Post graduate diploma in Business Management (DSGE)
Ecole des Hautes Etudes Commerciales (HEC), Lausanne

Professional Career

- ® Since 2003 J.-R. Murat, gestion de projets, conseils, expertises
Independent consultant, party and court appointed expert
- ® 2001-2003 Alcyon Engineering SA, Renens (CH)
Senior Project Coordinator
- ® 1989-2001 Bonnard & Gardel Consulting Engineers Ltd., Lausanne (CH)
Head of the «Project Management» Department;
Project Manager for major multidisciplinary projects;
In charge of Quality Management
- ® 1978-1988 Ecole Polytechnique de Montreal, Canada
Full Professor, Chair of strength of materials;
Head of the research laboratory on non-linear mechanics;
Vice Dean, research.
- ® 1974-1975 Canatom Ltd, Montréal, Canada (leading consulting group in the nuclear industry)
Structural analyst, civil engineering department;
Head of the seismic analysis group.
- ® 1972-1974 Computer Sciences Canada Ltd, Montréal, Canada (Canadian subsidiary of CSC Intl.)
Product Manager, engineering.
- ® **Others**
 - 1973-1982 University of Montreal (Architectural Faculty), Canada
Invited lecturer.
 - 1982-1984 Ecole Polytechnique de Thiès, Sénégal (Canadian Agency for International Development)
Professor and Dean for research
 - since 1980 Forensic Expert
Numerous audits and expert reports to the Courts, ICC, public and private investors.

Professional Activities

J.-R. Murat, gestion de projets, conseils, expertises – since March 2003

Independent expert and consultant in the field of multidisciplinary project management and civil engineering projects.

- Monaco Government: Technical and financial evaluation of 7 residential projects (1000 apartments and commercial premises), re-negotiation of all construction contracts.
- International Chamber of Commerce (Paris): Party's expert for a Expert US\$ 30 Mio claim related to the construction of a Middle-East university campus.
- Geneva Tribunal: Tribunal's expert in various cases (general contractors vs. Subcontractors) related to industrial and commercial construction projects.
- Conciliation (Paris): Conciliator for a € 55 Mio claim filed by a consortium (three leading French construction firms) to a public company during the construction of a wastewater plant.
- Arbitrator expert (Fribourg, Vaud): Member of SIA arbitration tribunal (hospital, industrial projects, residential buildings).
- Mediator for insurance companies (Axa, Zurich): Architect & Engineer responsibility, budget overrun.
- UBS (Geneva): Training in project and construction management for the real-estate department staff.
- Canadian Federal Court': Sworn expert for field accidents and injuries (1978-88)

Alcyon Engineering S.A. (Renens) – since July 2001

Alcyon® S.A. is a Swiss company specializing in the field of the value-added treatment of municipal solid waste.

® Senior Project Coordinator:

Feasibility studies, preliminary studies and business plans; Agreements negotiation with all the Project participants, particularly the Builder and the Operator; Subcontract management

- Dakar Urban Community (Senegal). Construction of three municipal waste treatment plants with a total capacity of up to 450'000 tons-per-year. Production of electricity drinking water (desalinization) industrial ice; and high quality natural fertilizer.
- Province of Puerto Plata (Dominican Republic). Construction and operation of a 120 MW electrical power plant

Bonnard & Gardel Consulting Engineers Ltd. (Lausanne) 1988-2001

BG is a multidisciplinary Consulting Firm with offices in 7 Swiss cantons and 3 countries and a staff of 170 for a turnover of about 20 million US\$. BG operates in the fields of Civil Works & transportation, Environment & water management and Buildings & industrial plants.

® Department's Head:

Administrative, technical and human resources management of the "Project Management" department.

® Project Manager:

Project objective-setting with respect to the level of performance required by the owner, development of the design basis, project strategy, planning and scheduling, leadership of the project team and of the design professionals, administration of the contractor's contracts, communication and decision management, conflict and claim resolution.

Overall coordination and management of major multidisciplinary projects such as:

- Philip Morris Europe S.A. European Headquarters in Lausanne. Major renovation project (40 mio): Engineering and construction management (asbestos removal, space planning, interior design, exceptional acoustic requirements, fully air conditioned, high-tech BMS system).
- Johnson & Johnson (Cordis) medical devices production plant in Le Locle. Transformation (14 mio) of an existing building to accommodate GMP production suites (clean rooms), including FDA validation procedures. Works were scheduled in phases to allow continuation of production.

- Ares-Serono biotechnology plant in Corsier-sur-Vevey. One of the world's largest biotech production facilities (300 mio). The engineering development was performed in association with the leading American firm "Life Sciences Intl." of Philadelphia.
- Centre Suisse d'Electronique et de Microtechnique (CSEM) research center in Neuchâtel. New high-tech building (36 mio) for research and pre-production of microelectronic components. Vibration-proof basement, clean rooms, special safety features related to lethal substance usage.

® Head of the Expertise Department:

Coordination and management of the BG Group expertise activities; relationship with clients and authorities.

® In charge of the Group Quality Management:

Planning, design, enforcement and maintenance of the Quality Management System for the Group (7 offices in Switzerland and abroad).

Ecole Polytechnique of Montreal (Canada) - 1978-1988

One of the major Canadian engineering school (3000 students), reputed for its research and post graduate activities.

® Vice-Chairman - Research (since 1987):

Graduate studies (M.Sc.A. and PhD.) management and research administration. General management of public and private research funds; Assistance to the research centers for obtaining and managing grants.

® Professor (Chair of strength of materials)

- 1978 Research assistant
- 1979 Assistant Professor
- 1982 Associate Professor
- 1986 Professor

® Research Activities

- Finite elements development for non-linear and structural stability problems.
- Sea ice mechanics, in relationship with petroleum industry projects in the Arctic.

® Committees

- Member of the "Academic Council", "Graduate Studies" and "Research Council", Ecole Polytechnique of Montreal (1984-88).
- Member of the executive committee of CSCE (Canadian Society for Civil Engineering) (1980-82; 1984-88).
- Chairman of the executive committee for the "Montreal Structural Engineers Society" (1979-82).
- Member of the Grant Committee, FCAR (Fonds pour la Formation des Chercheurs au Quebec) (1986-88)

Ecole Polytechnique of Thies (Senegal) - 1982-1984

Canadian Agency for International Development).

® Professor (Civil Engineering department)

® Dean of Research: Development of country oriented thematic research programs. Organization of student's research projects in partnership with local industry.

Université de Montréal (Canada) - 1973-1982

® Invited Lecturer (Department of Architecture): Lectures on structural design and on construction methods, organization and leading of workshops.

Canatom Ltd. (Canada) - 1974-1975

Leading Canadian Consulting Group in the nuclear industry (800 employees).

® Structural Analyst:

Member of the « Troubleshooting Group »; Static and dynamic analysis of nuclear containment vessel (prestressed concrete).

® Project manager:

Leader of the design team for the Rio Tercero (Argentina) power plant project (seismic design)

Computer Sciences Canada Ltd. (Canada) - 1972-1974

Canadian subsidiary of the US software and computer firm CSC Intl. (at the time the main NASA computer consultant).

® Product Manager, Engineering:

Software development; client's acquisition, commercial and technical support; in charge of products (finite elements software) acquisition and marketing, as well as of client's support.

Forensic Expert (Canada and Switzerland) - 1984 to date

- Canadian Federal Court's sworn expert for field accidents and injuries.
- Numerous expertise reports for Canadian agencies (technical and economical construction related problems): CN tower in Toronto, Montreal Olympic Stadium, aluminum plants, etc...
- Arbitrator on behalf of Swiss insurance companies.
- Tribunal expert for the Geneva Tribunal.
- Party expert on numerous arbitrations for the International Chamber of Commerce (ICC)
- ADR for private and public firms in France.

Affiliations

- Société Suisse des Ingénieurs et Architectes (SIA)
- American Association of Civil Engineering
- Swiss Chamber of Forensic Experts
- Internal Association for Bridges and Structural Engineering
- Order of Engineers of Quebec
- Lion's Club International since 1991.

Publications

Over 25 refereed papers in scientific journals and conference proceedings.

Achievements

- 1986 : Invited lecturer by the State Commission of Education and Research of the People's Republic of China to give a series of lectures and master classes on non-linear mechanics and research organization at the Dalian Institute of Technology and at the Quighua University of Beijing.
- 1983 Award of Excellence "Association for Medias and Technology Education in Canada" for a video entitled "Le Centre de Cisaillement".