

PROPOSED POSITION: Expert Adviser

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| Company: | UMVOTO Colenco [Switzerland] |
| Name: | Jean –Marc Lavanchy Teuckens |
| Nationality: | Swiss |
| Profession | Geologist |
| Position | Head Groundwater Protection & Waste Disposal |
| Date of Birth | 1957 |
| Specialisation | Groundwater Protection & Waste Disposal |
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| Experience: | 21 years |

Qualifications:

- MSc Geology University of Lausanne, Switzerland 1983
- MSc Hydrogeology University of Neuchatel, Switzerland 1985
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Membership of Professional Institutions:

Relevant Experience

Mr. Lavanchy graduated in geology after successful studies in earth science, geophysics and hydrogeology at the University of Lausanne. He then specialized in hydrogeology at the Center for Hydrogeology at the University of Neuchâtel, where he also worked for several assessment studies related to spring and groundwater protection.

After his extensive studies, Mr. Lavanchy returned to Lausanne where he was engaged as principal investigator for hydrogeological investigations by a firm dealing with geotechnical, geophysical and hydrogeological applications. He conducted numerous field investigations for groundwater protection studies, and prepared and supervised the execution of well and exploration drillings.

In 1987, Mr. Lavanchy joined the waste disposal department of Colenco. His responsibilities have been, on the one hand, the planning, the supervision and the quality control of complex hydrogeologic field campaigns (well testing and fluid logging), as well as the management support to the client. On the other hand, Mr. Lavanchy has been in charge of specialized reanalyses (complex flow models, dual phase environment), interpretations and global hydrogeological syntheses for nuclear, geotechnical and environmental projects. In addition to his participation in national projects in CH, D, F, B and J, he has taken part in field investigations in international projects related to waste disposal such as at the Bure, Grimsel, Mt. Terri and Äspö rock laboratories.

In 1993, Mr. Lavanchy was promoted to Coordinator of the Group Field Investigations. In that position, Mr. Lavanchy contributed to complex hydrogeological studies for critical aspects of deep tunnelling projects. As an expert in the task force set up by the Swiss Federal Railways (SBB) he was in charge of conceptualising and designing an extensive borehole investigation program from the Piora underground rock laboratory for the Gotthard base tunnel project.

His jobs within the task force included project management activities such as co-ordinating field investigations, preparing bidding documents, reviewing proposals, negotiating with candidates and selecting contractors. Thereafter, Mr. Lavanchy was involved in another hydrogeological study related to the Gotthard base tunnel in the Sedrun zone. Since about 2000, Mr. Lavanchy is strongly involved in hydrogeological investigations and syntheses for the evaluation of sites for the disposal of radioactive wastes in Germany and in France.

In the framework of multi-disciplinary projects as well as through continuing education, Mr. Lavanchy has steadily fostered his leadership and project management skills in the course of carrying responsibility for large and complex geoscientific projects covering the areas of site investigation, hydrogeological conceptualization and modelling, and safety assessment issues.

In 1999, Mr. Lavanchy was appointed Manager of the Groundwater and Waste Disposal Department, a financially independent profit center within Colenco Power Engineering. Two years later he engaged in a six month executive training at the IfB-Institute of Management at the University of St. Gallen. Although the better part of Mr. Lavanchy's time is taken up by management tasks, he contributes substantially to synthesis reports and to the conceptualisation and execution of in-situ test campaigns.

Recent Experience:

2004 – 2006 Switzerland

Project Manager Spatial Information System of the Grimsel Test Site. Development of a virtual 3D model of the GTS with an interactive navigation system and integrated spreadsheet display of experimental and gallery information; animation of the 3D model and its components

2004– 2006 France

Project Manager/ Hydrogeologist; Hydraulic site investigation from boreholes in the rock laboratory; Planning, supervision, interpretation and synthesis of hydraulic borehole tests conducted in the argillites at Bure

2004 – 2005 France

Project Manager/ Hydrogeologist; Hydraulic site investigation from surface boreholes; Hydrogeological studies including support in the planning of the hydraulic borehole testing program, data analysis, synthesis of the results and presentation to the authorities; on-site supervision of instrumentation installations on behalf of ANDRA

2004 – 2005 France

Project Manager, Data transfer and visualisation website for rock laboratory Bure; Installation of an automated data acquisition system based on a database principle; implementation of the website for the visualisation of recorded borehole data.