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## Consultant - Nuclear Power Plants Chemistry

### Areas of Expertise

- Consulting in the area of Chemistry and Corrosion for Nuclear Power Plants related to **Operation, Safety, Environment, Organization, Design and Maintenance**
- **Marketing** and sales assistance in chemistry domain for Nuclear Energy in France and several countries
- **Steam Generator** Design and Behavior
- **Chemistry Specifications and Guidelines** on operation, design and safety
- Consultancy on tests and engineering **programs**
- **Specific Training courses and presentations** in the area of Chemistry and Corrosion, Design, Operation, Safety
- Preparation of synthesis **documents** and connected presentations
- **Meeting chair and meeting reports**
- Organizational advice for **conferences** and **international business**

### Professional Experience

|                                     |   |
|-------------------------------------|---|
| Since 2007                          | <b>Consultant (as an independent consultant or through Acentis Conseil) for</b><br>- Several US, German, British, Hungarian, Korean, Belgian, and French companies<br>- Expert at ANT International (Sweden) for many countries since 2009<br>- Expert within USA for a large Chinese Company (at corporate level) since 2012   |
| Électricité de France<br>1983- 2007 | <b>CEIDRE- Saint-Denis, France. 2005-2007</b> <ul style="list-style-type: none"><li>• Expert in chemistry and corrosion in charge of strategy and international relations</li><li>• Corresponding member within EPRI (USA) on steam generator issues</li><li>• Responsible for technical support in China, South Africa, Russia and other countries</li></ul> <b>Central Laboratories. 1983-2005</b> <ul style="list-style-type: none"><li>• Expert at the Technical Direction for chemistry and corrosion</li><li>• Technical support for the 58 PWR Units of the EDF fleet</li><li>• Responsible for International Projects in technical support and R&amp;D projects</li><li>• Manager of the Engineering Group in charge of chemistry and corrosion studies</li><li>• Preparation of the first set of Chemistry Specifications</li><li>• Technical responsible for chemistry support to Fast Breeder Reactors</li></ul> |
| Framatome now AREVA<br>1974 - 1982  | <b>Chemical Engineer – Paris La Défense, France</b> <ul style="list-style-type: none"><li>• Responsible for the manufacturer Chemistry Specifications</li><li>• Project Manager for International Projects USA-France in chemistry and corrosion including loop test, and R&amp;D part</li></ul>  |
| CEA<br>1970- 1974                   | <b>French Atomic Energy Commission, Saclay, France</b> <ul style="list-style-type: none"><li>• Activation Analysis and chemical separation, isotopic analysis</li></ul>   |

## Experiences – Additional activities

|                                   |   |
|-----------------------------------|---|
| <b>IAEA</b><br><b>1987 - 2013</b> | <b>International Atomic Energy Agency, Vienna</b> <ul style="list-style-type: none"> <li>• Chemical Expert during pre-OSART, OSART and Post OSART</li> <li>• Expert, presentation of documents and chairman during workshops, R&amp;D Projects, Contribution to reference documents</li> </ul>  |
| <b>1980 - 2013</b>                | <b>Teaching – Preparation of Reference Documents</b> <ul style="list-style-type: none"> <li>• INSTN (National Institute of Sciences and Nuclear Techniques): ≈ 50 courses</li> <li>• IAEA: 3 Workshops sessions with Teaching to foreign Utilities</li> <li>• ASPEA, Swiss Organization: 1 workshop</li> <li>• Several contributions in Reference Technical Documentation, PowerPlant Chemistry Journal, French Nuclear Journal (Revue Générale Nucléaire), etc.</li> <li>• ANT (Advanced Nuclear Technology) International</li> </ul>  |
| <b>1977 - 2007</b>                | <b>Corresponding Member and International Project Manager</b> <ul style="list-style-type: none"> <li>• 1978 – 1991: 12 Projects (Westinghouse, CEA, EDF, Framatome)</li> <li>• 1986- 2007: EDF Corresponding member for Steam Generator Management Program with EPRI (Electric Power Research Institute), USA</li> <li>• 1994 – 2000: Project Manager for Chemistry Center in Moscow - Rosenergoatom</li> <li>• 1996 - 2007: Launching of EDF Chemistry technical support to China (Daya Bay) and South Africa (Koeberg) and technical exchanges with 10 countries</li> </ul> |
| <b>2000 - 2012</b>                | <b>International Conferences</b> <ul style="list-style-type: none"> <li>• 2002: Chairman of Organization Committee for the International Conference on « Water Chemistry in Nuclear Reactor Systems ». 305 attendees from 32 countries, 160 papers. Popes Palace, Avignon, France. 22-26 April 2002.</li> <li>• French corresponding member, chairman and keynote author at several International Conferences, Member of Organizing Committee for International Conferences on Water Chemistry, NPC2008, Berlin, NPC2010 Quebec, NPC2012 Paris</li> </ul>                     |

## Education

|             |  |
|-------------|--|
| <b>1973</b> | <b>Ph D in Nuclear Chemistry.</b> <ul style="list-style-type: none"> <li>• Contribution to the study of quantification of traces of light elements in alkali metals by gamma photon activation and charged particles.</li> </ul> |
| <b>1970</b> | <b>Master's Degree in Chemical Engineering/Chemistry from Mulhouse National Superior School of Chemistry, France</b>   |

## Languages – International

- **English:** Fluently read, spoken and written
- **Italian, German, Russian:** Basic knowledge
- ❖ **Extensive Business experience in foreign countries:** ~ 100 trips in the USA  
+ 20 in Asia (China, Japan, Korea, India), + 20 in Eastern Europe (Russia, Ukraine, etc.)  
+ 100 in Western Europe (many countries) + 3 in South Africa,

## Published documents

- 1 Patent + 1 Book of 350 pages with a co-author + Contributions to about 10 books
- Contributions to about 20 journals + 40 published papers + Many documents for workshops