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Doctor-Engineer

Water Chemistry / Solid State Chemistry

I am seeking for a R&D management position in one of the following fields:
water chemistry, environmental chemistry, materials science.

Experience

Leiden (Netherlands)
2002-

Applied research in water chemistry for industrial cooling systems.

(5 years as a Senior Research Chemist at Nalco Europe BV)

- ◆ Development, field trial and world wide deployment of new corrosion inhibiting formulations for industrial cooling systems.
- ◆ Co-ordination and support of numerous projects related to industrial cooling water treatment. Supply chain follow up of new products (from the laboratory's bench to the customers' sites).
- ◆ Reformulation and deployment of existing products. Objective: decrease costs, increase performance and/or stability, addition of tracers for automatic dosage control etc.
- ◆ Prospecting work and exploration of ideas for new technologies.
- ◆ Advanced technological support to the field.

Hiroshima (Japan)
1999-2001

High temperature - high pressure synthesis of a new silicon allotrope.

(2 years in the Applied Chemistry Department of Hiroshima University)

- ◆ Development of high pressure and high temperature synthesis in order to obtain new types of silicon and germanium based materials.
- ◆ Creation, development and co-ordination of a Franco-Japanese research joint venture between 4 physics and chemistry laboratories.
- ◆ The outcome of this work was the publication of 6 papers in high standard international journals (*Phys. Rev. Lett.*, *Phys. Rev. B* etc.) and an increasing interest from industrial groups for these materials.

Bordeaux (France)
1995-1999

Synthesis and characterization of a new type of silicon: clathrates.

(PhD at the Institute of Condensed Matter Chemistry, CNRS)

- ◆ Design and development of silicon clathrates synthesis.
- ◆ Various chemical and physical characterizations.
- ◆ This work revealed the exceptional properties of these materials and the long term industrial potential.

S^t Médard en Jalles (Fr.)
1995

Study of the electrical resistivity of carbon/carbon materials.

(6 months as a trainee at The European Propulsion Society)

- ◆ Study of the effect of various parameters (level of densification, fiber arrangement etc.) on the resistivity of carbon/carbon composite materials.
- ◆ Definition of a new measurement procedure increasing reliability and reducing cost compared to the one previously in place.

Education

1995-1999 Bordeaux
1993-1995 Caen
1991-1993 Bordeaux
1989-1991 Bordeaux

PhD - solid state chemistry (very honourable).

Engineer Diploma - materials science (rank: 2nd/165).

Masters in science and technology - methods and physical techniques of industrial chemistry (rank: 2nd/24).

Degree in Technology - physical measurements (rank: 5th/89).

Other

Publications: - 21 papers, 11 oral presentations.

Languages: - English and French (bilingual – maternal languages).
- Conversational Japanese, notions of German and Dutch.

I.T.: - Windows, MS Office, Lotus Notes, SAP, Charms, PIMS.
- JMP, Echem Analyst, Origin, Fullprof, Cerius 2 etc.
- DW4, QBasic, HTML, assembler, notions of C++.

Other Interests: - Music: playing in bands (bass, guitar, djembe) and home studio.
- Travelling: Asia (6 countries), North America, Europe, Africa.
- Webmastering: see <http://www.galacticsurf.net/>