

Pierre Chevalier

Born on March 9 th , 1967 in Port-Etienne (Mauritania) French nationality Married, four children Driving licences: A, B, international	Address: Mesté Duran 32100 Condom France Telephone: +33 (0)9 75 27 45 62 Mobile: +33 (0)6 37 80 33 64 email: pierrechevaliergeol@free.fr jabber: pierre.chevalier1967@jabber.fr website: http://pierremariechevalier.free.fr/pierre_chevalier_geologue/index.html
Mobile, independent, technically self-sufficient	

COMPETENCES

● Geology

Experience in various geological contexts and ages, from Archean to Quaternary, from intrusives to sedimentary basins, through metamorphic and volcanic series.

- Field geology
- Geological mapping
- Mining exploration: all stages of exploration, in most conditions: desert, taiga, equatorial forest, Sahel, tropical forest, etc.
*Among other missions, played a **major role** during the discovery of **Kenyasi** (renamed **Ahafo**, since), a major gold orebody in Ghana, within a shear zone. This district contains about **20 million ounces** reserves of **gold**.
Also, played a proactive role in the re-discovery of large volcanogenic massive sulphides deposits in the **Ariab district, Sudan**, with a very large potential in gold and base metals, notably Hadal Awatib and Hassaï South deposits. Today, these orebodies are contributing to sustain the mining exploitation of the district.*
- Drilling supervision and follow-up
- Structural geology
- Geotechnics
- Hydrogeology

● Computer Science

Varied competences in computing, including database management and administration, data processing, system administration, development, maintenance, hardware and software administration, networking, GIS, etc.

- Unix-type systems
 - GNU/Linux: use of a variety of distributions (Debian, Red Hat, Linux From Scratch, Mandrake, Mandriva, Mageia, Yunohost, GIS Knoppix, Slackware, Ubuntu, Suse, Puppy Linux, Tomsrtbt, Zipham, Corel Linux, Storm, Elive, Mint, etc.)
 - Workstation administration
 - Server administration:
 - Installation, setup, implementation, administration: daily maintenance, backups, updates
 - Self-hosting: Debian + Yunohost
 - Dedicated database server: Debian / PostgreSQL
 - HP/UX: use on workstations
 - FreeBSD: headless file server
- Software development, programming
 - Rebol: utility scripts, database administration programs, reports generation, varied general programs
 - Python: utility scripts, database administration programs
 - Visual Basic (obsolete): several general programs, utilities for geology; development of TecTri, a specialised application for structural geology, from A (need, initial idea) to Z (selling, technical support technique to clients)
 - PHP (occasional)
 - Red (experimental for the time being): scripts, tests
 - C: utility programs, just transforming ASCII x y z data files using mathematical transformations
 - bash: simple daily scripts
- Databases
 - PostgreSQL (DALIBO partner, DBA2 level), sqlite, oracle (client side), access (obsolete), MySQL (MariaDB), dBase
- Geographical Information Systems: PostGIS, QGIS, GRASS, ArcView, ArcGIS, MapInfo: GIS base data maintenance, various uses: mapping, thematic studies, spatial queries, modelling, full studies (including scientific and interpretation side as well as technical implementation).
- Specialised software packages, including work on cross-sections, interpretation aid, 3D modelling, logs, statistics, etc.
- Network administration, site maintenance
 - Client computers maintenance and administration, other hardware, network, backups and security
 - Help support to users: technical support and development+deployment on demand ("devop" before time, in the 1990's)
 - Systèmes de type
 - MS-DOS and Windows systems: daily maintenance of computing infrastructure, NT server maintenance (obsolete)
- Free Software enthusiast
 - LUGs animation in SouthWestern France.
 - All my programs are published on github.
 - Founder of GeoLLibre, a free/libre software suite dedicated to earth sciences.
 - Within GeoLLibre, implementation and daily use of PostGeol, based on PostgreSQL.
- Applied computing:

general software packages and specialised geological software, 3D modelling softwares, database design, implementation and maintenance

- Data management, server management, hardware and software maintenance

WORK EXPERIENCE

Twenty-five years of professional experience, mostly in **mining exploration, field geology** (geological **mapping, tectonics**).

International experience. Creation of a company providing services in geology.

- 2017: Technical Director, mining exploration geologist, **Auramines**
- 2016: geologist - geotechnician, **IMSRN**
- 2016: **Computer Scientist and Independant Geologist**, in the same company, PChGEI, since 2006
- 2014 – 2015: **Afrex Geoservices Ltd**: Principal Geologist, missions in mining exploration
- 2007 – 2008: **Chief Geologist**, in charge of exploration and geology department of **Ariab Mining Company (AMC)** at **Hassaï gold mine**, Sudan
- 2006 – 2016: **Independent geologist**, contracts in mining exploration, general and applied geology, database management, teaching, computing
- 2000 – 2005: **BRGM**, La Réunion **Regional Geological Service**, Indian Ocean
- 1995 – 2000: **BRGM, Exploration Department** from the National Mining Service (SMN/DEX), Mineral Resources (REM). **Expatriations** in Chile, Ghana, Mauritania, missions in Russia, Ivory Coast.
- 1994 : Engineering services company **SITEE** (SIT Eau et Environnement), Paris.
- 1993 – 1994: **SNEAP** (Elf-Aquitaine, oil company), Pau
- 1990 et 1992 – 1993 : **COGEMA** Spain (CISA) and **COGEMA** Resources Inc., Canada
- 1992 : **CPSL** (Centre Polytechnique St-Louis)

EDUCATION (BACCALAURÉAT+5 YEARS): GEOLOGY

General education

- 1989 – 1992: **IGAL** (Geological Institute Albert de Lapparent, Paris, France) superior cycle (technology). School of ingeneers with integrated preparation, part of FESIC (Fédération d'Écoles Supérieures d'Ingénieurs et de Cadres)
- 1986 – 1989: IGAL general cycle (3 years)
- 1985 – 1986: maths sup bio preparation (biology and mathematics), lycée Montaigne, Bordeaux
- 1984 – 1985: mathematics (C) terminal year (baccalauréat), St-Jean school (Lectoure, Gers, France)

Training courses

- 2016: conferences and workshops: neo4j, pgDay Paris, FOSS4G-Fr, cozy-cloud
- 2016: Dalibo DBA2 training course (PostgreSQL Advanced Administration)
- 2015: Dalibo DBA1 training course (PostgreSQL Administration, self-teaching)
- 2014: Réunion des Sciences de la Terre, journées de Launay, Pau, France
- 2014: Best practice for assessment and reporting of Exploration Results, Mineral Resources and Mineral Reserves, IGI, Dublin, Ireland
- 2013: Thematic school "École thématique « Ressources Minérales : défis scientifiques et sociétaux », CNRS, Geneva, Switzerland
- 2012: SGF: regional field trip in Central and Western Pyrenees; "Uranium days" meetings in Orsay
- 2012: marble quarries in Portugal: geology and quarry techniques, SOLUBEMA-MARBREK
- 2012: training on Reflex Gyro down-hole survey tool
- 2011: workshop "Graphical presentation and numerical modelling of geochemical data - Short course of the R Language ", by Vojtěch Janoušek, from Czech Geological Survey & Charles University in Prague
- 2011: regional field trip "Geology of Hercynian belt in eastern French Central Massif", led by Jean-François Moyen and Arnaud Villaros, from Saint-Etienne University
- 2007: good practices in software development
- 2003: project management
- 2001: IGN (French Geographic Survey) topographic database (BD Topo)
- 1996 – 2005: BRGM training courses: GIS softwares (Mapinfo, Arcview, ArcGIS), scientific writing, applied geophysics, superficial formations, supergene alterations, geology, mines visits
- 1997: Canada, Abitibi province, several mines visits
- 1994: borehole logging interpretation
- 1984: BRGM Orleans: lithotheque

Diplomas

- 1994: **IGAL Geologist Memoire** - *Tectono-sedimentary context of the Subbetics nappes front emplacement onto the Prebetics in the Nerpio area*
- 1991: IGAL superior cycle certificate
- 1989: IGAL general cycle certificate. Presentation of Geology Aptitude Memoire (IGAL)
- 1985: Baccalauréat C (mathematics-physics).

LANGUAGES

- French: mother tongue
- Current English
- Current Spanish
- German: baccalaureat level
- Arabic: practical rudiments
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TEACHING / PROFESSIONAL TRAINING

- 2016: pgDay Paris conference: presentation of the GeoLLibre project and its natural evolution to PostGeol.
- 2010-2015: teaching at University Jean Monnet - Sciences and Techniques Faculty in Saint-Etienne, Geology Department, UE Numeric Geology: licence courses about databases and their applications in geology.
- 1995 – 2015: training, supervision, management, competences transfer to local staff in geology, mining exploration, applied computing
- 2011: supervision and training of students from first to fourth year of IGAL - LaSalle Beauvais, during a field mapping camp in Barrême (Southeastern France, subalpine domain)
- 2010: course at IGAL - LaSalle Beauvais, fifth year: mining exploration: basic notions, short introduction to useful principles, for a geologist's use. Course largely inspired from real-life, actual examples lived in person (anonymised), notions of metallogeny and geology.
- 2010-2011: training of second school students, within the computing club from college N-D de Piétat in Condom
- 2006: IGAL students teaching and training during a field training camp in Montbrun, and during a field campaign (Urdach Pass Lherzolites, in Pyrenees).
- 2000 – 2005: training of younger colleagues (VSN, National Service Volunteers)
- 1996: training courses on GDM software
- 1992 – 1994: structural geology practical courses, IGAL

PROFESSIONAL EXPERIENCE

Participation to various projects and projects management, expertises in Spain, Canada, Chile, Ghana, Russia, Ivory Coast, Mauritania, France, Sudan, Mali, French Guyana, Cameroon, Iran, Congo-Brazzaville, Burkina Faso.

Auramines, Africa

Since April, 2017: Technical Director, mining exploration geologist. Gold exploration and mining operations.

IMSRN, for XXXX, Sudan (confidential)

December 2016: gold exploration: occurrences review, attempt to setup a pilot plant for mineralurgical tests.

IMSRN, for various clients

Various geotechnical missions on construction sites, natural hazards related to landslides.

Afrex Geoservices, for XXXX, Sudan (confidential)

October-november 2015: gold exploration on a mining exploration licence: showings reconnaissance, prospecting, licence evaluation. Advice for a semi-industrial mining operation.

PChGeol, for Cayambe: study and synthesis of ore deposits, mining potential, West Africa

Study and bibliographic synthesis, GIS, with a team of several senior mining experts, concerning zones of West Africa, within a XXXXX project, for XXXXXX (confidential).

PChGeol, for Mrs Berthol, Auch, France

Diagnostic about a landslide. Field work, bibliography, synthesis, geological diagnostic.

PChGeol, for XXXX (confidential), Burkina Faso

August 2015: due diligence on a gold prospect: field mission, bibliography, advice.

Afrex Geoservices, for XXXX, Sudan (confidential)

February-March 2015: preliminary reconnaissance prior to exploration licences submission; gold showings reconnaissance, prospect evaluation at regional scale, advice for licences ranking.

Afrex Geoservices, for Compagnie Minière Espérance (CME), French Guyana

November 2014 and January 2015: mission on Espérance site, launch of a core-drilling exploration program, interpretation of first results, geological hypotheses and recommendations for future exploration.

Afrex Geoservices, pour Cominco, projet Hinda, Congo

April-June 2014: missions on Hinda phosphate deposit: end of the mine feasibility study, geotechnical boreholes on waste dams and on ore beneficiation plant sites.

PChGeol, for Fugro Géotechnique, Cameroon

November 2013: mission in Bakassi area, off-shore near-shore, diamond drilling from a barge for oil&gas rig site geotechnical assessment.

PChGeol, with IMSRN, for NICICO, Iran

October 2013: mission at Sungun porphyry copper: mine visit, data examination, preliminary assessment before proposal.

PChGeol, for Société des Mines d'Ity (SMI), Côte d'Ivoire

August 2013: mission at Ity site: training on **exploration database**; structure adaptation, import of old datasets, utilities development.

April 2013: mission at Ity site: **retrieval of old data** to be incorporated in database; **sampling** in open-pit for scientific studies.

February 2013: writing, with Pol Urien, of the 2012 SMI exploration **annual report**.

October 2012: mission at Ity site: drilling exploration results review; start of **specialised scientific studies** subcontracted to research laboratories; training on **database**.

June-July 2012: mission at Ity site, follow-up of **drilling exploration program** on **Mont-Ity**, implementation of a database server, program supervision.

January-February 2012: mission at Ity site, supervision, follow-up of **drilling exploration program** on Mont-Ity, with teams from SMI and COMINOR-CI. **Demonstration of extensions** of the orebody, at depth and laterally.

October 2011: mission on Ity mine site: reconsideration of Mont-Ity orebody geological model:

- proposal of a **different genetic model**, with gold mineralisation related to a **shear zone** reworking a **skarn**, hypothesis of oxidising hydrothermal alterations. **Important implications** in terms of **extensions possibilities**, and district potential.
- demonstration of gaps in the orebody knowledge, a delineation program is especially missing. Proposal of a drilling program.

February 2011: assistance to SMI, production of technical documents (plans, cross-sections, drill-hole logs) using GDM with in-house automation software and geollibre bdxplo, for the report concerning 2007-2009 exploration campaign. Work based on the previously compiled database.

September 2010: assistance to SMI, **data synthesis, constitution** of a proper **database**, to be able to so that SGS may be able to compute estimation of two orebodies found by exploration programs in 2007-2009.

March 2010: mission on Ity mine site

- **Geological diagnostic** concerning an unforeseen indurated zone within the **Mont-Ity-Flat** open-pit gold mine. Evidence of **primary gold mineralisations** related to **skarn** and **fault/shear zones**. **Demonstration** that **argillaceous auriferous mineralisations** being **mined** out are not **wholly** related to re-concentrations by **supergene** phenomena.

Consequently, demonstration of a **potential** for possible **extensions at depth** of the known orebodies being mined at surface, **mineralised in gold** but also in **other metals**, such as copper, tungsten, molybdenum, zinc.

Launch and follow-up of scientific studies by specialised laboratories, to better assess these hypotheses.

- **Assistance** to SMI, Cominor-CI and SODEMI staff for the **preparation of the geological model** of Gbeitou and Walter orebodies, which were found by the previous exploration drilling program.

PChGeol, for Aréthuse Géologie, for Ansan Wikfs, Sudan

January 2013: mission on Gabatillo and Serakoït licences. Gold and base metals mineral occurrences study, revision of exploration works. Licences' potentialities evaluation; recommendations.

PChGeol, for Société des Mines de Saint-Élie (SMSE) and Compagnie Minière Espérance (CME), French Guyana

January 2014: missions on Saint-Élie and Espérance mining sites: recommendations for mining exploration; on Espérance, fine-tuning of a first drilling exploration program.

December 2011: short missions on Saint-Élie and Espérance mining sites: **study of gold mineralising phenomena** and **geological context**. Evaluation of licences **potentialities**; recommendations.

PChGeol, for Iamgold, Mali

April 2011: one month mission in Siribaya, south-western Mali: **study of drill-core** from previous exploration phases, **interpretation** of geological phenomena, interpretation of **gold mineralising processes**, notably **brecciations**. Participation to exploration **drilling programs design**. Start of a diamond drilling exploration program.

PChGeol, for African Ore, Sudan

March 2011: mission in **Ingessana** area (Blue Nile region), Sudan: field reconnaissance of a set of mining licences for **chromite**. Showings, workings, prospection, artisanal working reconnaissance.

PChGeol, for Ariab Mining Company, Hassai gold mine, Sudan: Kamoeb, Ganaet

March 2011: mission on **Hadal Awatib orebody**: **structural study** of the volcanogenic massive sulphides orebody, during an important drilling program. Structural analysis and interpretation, geometric and tectonic hypotheses, three-dimensional reconstructions and geometric modelling.

2010: AMC **exploration database repair**; then database maintenance: updates, data imports, verifications, exports, datasets validations, comparison of datasets, data conflicts resolutions.

March 2009: mission as a consultant in **structural geology and mining exploration** for Ariab Mining Company: structural study of Kamoeb and Ganaet orebodies. Field work, observations, structural measurements, structural mapping, microstructural study.

June 2009: quick audit of AMC exploration database.

PChGeol, for Brinsley Enterprises, Aberkatieb project, Sudan

March 2009: field mission, support in Aberkatieb area, Red Sea Hills, North-Eastern Sudan. Gold mining exploration project, oxidised massive sulphides targets and auriferous quartz veins. Various occurrences at different exploration stages, from grass-root to first phase

drilling program. Occurrences field review and evaluation, structural geology, metallogeny. Licence evaluation, recommendations in terms of **mining exploration**, particularly for **gold targets** in **shear zone** contexts, in **oxidised massive sulphides** and on **base metals** targets in **massive sulphides**.

PChGeol, for GéolVin, Chiroulet domain, Gascony: geological study of a wine producing area

February 2009: launch of a project aiming to understand the relationships between geology, pedology, vineyard and wine in Gascony. Applied geology, work with pedologists and winemakers. Industrial applications targeting a qualitative production, and public information. On June, 6th 2009, animation of a field workshop, in close relationship with GéolVal onto Chiroulet domain, within the frame of the International Year of Earth Planet.

PChGeol, for BRGM, Infrastructure and Natural Hazards service, Orléans: underground cavities database

December 2008: support mission for database management, diagnostic audit. It is a national database on an oracle server, exposed on Internet through a PostgreSQL database, and fed by agents located in regional services working on .mdb files. A number of anomalies were found, incoherences. The mission consisted in a data compilation of various data sets, their analysis, a diagnose of the state of the various data sources, trying to reconstitute a unique data set. Intervention report, recommendations.

PChGeol, for Cominor CI, Bondoukou project, Ivory Coast

February 2010: field mission as a consultant, review of exploration drilling programs at the start of an exploration campaign. Review of first drill holes from the campaign; concentration on two tactical exploration zones, ZA3 and ZA6.

October 2008: field mission as a consultant, support in Bondoukou area, East of Ivory Coast, close to the border with Ghana, in a gold exploration project in birimian and tarkwaian series.

Training of local teams, in structural geology, metallogeny, external point of view on the project. Recommendations in **mining exploration**, particularly for **gold targets** in **shear zone** context.

Since, interesting findings were made and proved by trenching and drilling.

Ariab Mining Company, Hassaï gold mine, Sudan

April 2007 to July, 2008: **exploration geologist** for Cominor, shareholder of La Mancha, itself shareholder of AMC (Ariab Mining Company), which mines since 1990 gold mines in the Hassaï district, in the Red Sea Hills, eastern Sudan, in the Sahara part of the Red Sea Hills.

Mining of orebodies related to oxidation of massive sulphides was ending, rather delicate context of a declining mining operation.

In charge of the geology and exploration section, intense exploration activity, work on old targets, restart of prospecting campaigns, proof of evidence of potential in the district. **Launch, follow-up and coordination of exploration programs** with RC (Reverse Circulation) drilling, soil geochemistry, follow-up of exploration work from soil geochemistry to evaluation drilling through hammer prospecting, geological mapping, structural interpretation, geophysical data integration, trenching, stripping. Development of targets different than the ones traditionally searched. Restart of exploration for base metals in **volcanogenic massive sulphides (VMS)** by core drilling. Evidence of very large deposits, probably world-class.

In the mean time, slowed down consultant activity, re-centered on software development dedicated to geosciences, **launch of a free software suite in geology, GeoLLibre**.

PChGeol, for GEOTER and COFOR/COREIS: Arbus

Subcontract for GEOTER, on a highway project next to Oloron-Sainte-Marie, around Arbus village, for a tunnel. **Follow-up** and **logging** of reconnaissance **diamond drill holes**, real-time follow-up, intact sampling for geotechnical tests.

PChGeol, for GEOTER and COFOR/COREIS: Violay

Subcontract for GEOTER and COFOR/COREIS, A89 highway project between Clermont-Ferrand and Lyon, for tunnels in the area of Violay and Tarare, project management Scetauroute, contractor ASF. **Follow-up and logging** of diamond **drill holes**, percussion drill holes, mechanical shovel reconnaissance pits, geological field mapping.

Independent Geologist

August 2006: creation of **Pierre Chevalier Géologue**, individual company, in collaboration with **my wife**, also a geologist.

- Subcontract for a variety of clients (see above)
- Participation with **GéolVal** to the writing of a field guide about the TransPyrenean Geological Route (Route Géologique Trans Pyrénéenne), an itinerary to discover the geology of the Pyrenees in the Aspe Valley.
- Intervention for **IGAL**, which became the **Geosciences Department** from the **Institut Polytechnique LaSalle Beauvais**: training of students of first, fourth and fifth year in the field, in the Haute-Provence Alps and in the Pyrenees.
- Interventions in computing, specialised in Free Software in general, and particularly in GNU/Linux.

BRGM (Bureau de Recherches Géologiques et Minières: French Geological Survey)

- **Public Service** in administrative region

2000 – 2005: **regional geologist – computer scientist**, La Réunion **Regional Geological Service**, project manager.

- 2005: **3D geological modelling** of the La Montagne massif, for a tram-train project: **field work, geological mapping, modelling data preparation**.
- 2004 – 2005: **borehole logging** and **geological mapping** on an underground water tunnel project (basculement des eaux). **Detailed mapping** at 1/5 000 scale, vertical and horizontal boreholes core logging.
- 2003 – 2004: **geological mapping of Salazie and Mafate cirques at 1/10 000 scale**, within the MVTerre scientific research project, studying large scale mass movements in the cirques and large valleys on Reunion Island. Study of live neotectonics, combination of gravity-driven tectonics, geodynamics, and volcanic-related deformations.
- 2000 – 2005: in charge of the regional part of the **Banque de données du Sous-Sol (BSS)**, French national public domain drill hole database.
- 2000 – 2003: **computer scientist**, in charge of computer equipment, **GIS data management**, data management, hardware management, **network administration**.
- 2001 and 2003: missions in **Madagascar, geological and structural evaluation** for road aggregates **quarries**.
- 2002: underground water supply channel, Bellepierre, Saint-Denis: **geological risk assessment**, after a rockfall event.
- 2001 and 2002: **soil erosion hazard mapping** project in La Réunion, phases 1 and 2: characterisation and mapping (1/100 000 to 1/50 000) of erosional phenomena and erosion hazard. Heavy **GIS** works, **multi-criteria processing**; project management.
- 2001: La Réunion **Schéma Départemental des Carrières** (official quarries plan): mapping, GIS.
- 2000: **geological study** in an underground water supply channel (“basculement des eaux” project): **geological and structural observations**, sampling for asbestos detection.
- 2000: **natural hazards mapping** of La Réunion (1/100 000), **multicriteria GIS processings**.
- 2000: **watershed** delineation of the Réunion island and hydrographic network hierarchisation, **GIS processings**.
- **Mining exploration**

1995 - 2000: **exploration geologist** within the Exploration Department of the National Mining Service (BRGM/SMN/DEX), which became Mineral Resources department (REM).

 - October 1998 to May 2000: **Mauritania, Tasiast: exploration geologist**, responsible on site of a **gold exploration project in banded iron formations (BIF)** of archean ages, third and fourth phases of oriented core drill holes and reverse circulation (RC) percussion drill holes. **Follow-up and logging of drill holes, structural measurements** on core oriented by BTM (design of a specific method for magnetic rocks), structural measurements and observations in trenches, **geological mapping, structural study, modelling of orebody envelope** on sections, then work with the modeller. Detailed modelling of a high grades zone, structurally complex.
 - July 1998: **Ivory Coast, Ity area**, for Société des Mines d'Ity: expertise mission in **structural geology** with an expert en metallogeny, on targets close to the **Ity gold mine**, in a context of deformed birimian series.
 - February 1998: **Russia, Southern Urals**: mission within the frame of european project TACIS, aiming to help rationalising the russian mining sector of activity. **Technology transfers** in computing applied to mining data, technical collaboration with the russian teams from the Mineralogical Institute of Miass, applied to the massive sulphides orebodies from Southern Urals.
 - June 1997 to October 1998: BRGM, Orléans: participation to various projects, mostly in **computing** applied to **mining exploration** or **mining geology, design and implementation of several GISs**: GIS of russian mines, GIS Andes project, data compilation of live mining exploration projects (LaSource projects in Sudan, Kenya, Turkey, Mauritania, Erythrea, Greece, Kazakhstan).
 - May 1997 to June 1997: **Ghana, Kenyasi project, mining exploration for gold**: second phase of delineation drill holes, **exploration geologist in charge on site**.
 - November 1996 to April 1997: **Ghana, Kenyasi project, mining exploration for gold in shear zone context in Birimian series**, first phase exploration diamond drill holes, **exploration geologist in charge on site**. Demonstration of the presence of a major orebody (in 2008, this orebody, mined by Newmont, had **28 Moz of gold** reserves).
 - August 1996 to October 1996: **Ghana, Subenso project** for Bonsu Gold Holdings: **mining exploration** for gold, first phase of **trenching**.
 - January 1996 to July 1996: **Ghana, Yamfo project** for Bonsu Gold Holdings (LaSource - Gencor joint-venture): **mining exploration** on a gold orebody in a shear zone context in Birimian series, second phase of drilling, delineation drilling.
 - January to November 1995: **Chili, X° South Region Project: inventory** of mineral resources of the southern part of the Tenth Region, cooperation with SERNAGEOMIN (Chilean geological survey). **Helicopter-borne geological mapping** mission, and strategic regional exploration; punctual missions on structural problems. **Geological mapping, from field observations to map production**, at 1/250 000 and 1/100 000 scales.

COGEMA (COmpagnie GÉNérale des MATières nucléaires)

- 1992 – 1993: VSN with COGEMA Resources Inc., Canada.

- May - November 1992: Canadian Cordillera, British Columbia: regional prospecting and mapping program in the Nechako Plateau, Nechako gold exploration project; structural study (Nechako Project: structural analysis report). Prospecting techniques included glacial till studies, and boulder tracing.
- November 1992 - June 1993: **Athabasca Basin**, Northern Saskatchewan, Canada: winter **exploration drilling** program, Waterfound River **Uranium** project.
Work included core-logging, down-hole probing (neutron and gamma), a structural study, data processing, geochemistry and geological interpretation, drafting cross-sections, and report writing (Waterfound River Project: 1993 activities and results; structural study).
- June - July 1993: **exploration data** compilation of the Carswell structure area, West Athabasca.
- March-May 1990: COGEMA Spain (CISA): Western Asturias (northern Spain), detailed geological mapping, **regional gold exploration, prospecting and evaluation** of two mining properties, Antonia and Raquel (gold showings prospecting), bibliography, air photos & satellite images study, report writing.

SITEE (SIT Eau et Environnement): Engineering services company

1994: **ingenieur geologist**: impact studies for quarries, gravel pits, classified installations and civil engineering projects. Environment, geology, hydrogeology.

Elf-Aquitaine (major oil company, now Total)

- 1989: SNEAP Pau: **structural study** from drill core observations and oriented logging data (SHDT, FMS and BHTV), from an off-shore well in North Sea; Diamage software use and evaluation.
- 1993 – 1994: EAP Pau: **data compilation** throughout the North Sea, maps digitising, database constitution, preparation for 3D modelling, using Petrosystems and Sierra software.

CPSL (Centre Polytechnique St-Louis)

1992: **computers manager / programmer** within CPSL (group of 6 companies), Paris.

BRGM (Bureau de Recherches Géologiques et Minières), île de France

January-March 1991: BRGM geotechnical division, Eole project, Paris: **underground survey** of a building site (subway station): geological survey, **geotechnical** in situ measurements, in situ tests.

IGAL (Institut Géologique Albert de Lapparent)

- 1989: geological mapping mission of the Puerto Lombreras neogene basin, internal Betic Cordillera: field work, air photos interpretation, map drafting, report writing.
- 1986 – 1992: External Betic Cordillera, southern Spain
4 field programs (total of 5 months) including a complete geological survey (**detailed geological mapping, air photo interpretation, structural, paleotectonic, sedimentological studies**), bibliography, data synthesis and reporting, two memoirs edited.
- Lucania, southern Italy
Paleotectonic and sedimentologic study: geological mapping program, geological survey.
- France: regional studies
Field programs in sedimentary and metamorphic contexts: Haute-Provence Alps, Baronnies (southeastern France), Berry-Limousin, Leon country (Britanny), Parisian Basin, Pyrenees.

COMPUTING

Everyday use of **geographic tools; design, implementation and maintenance of database and geographical information systems (GIS)**. PostgreSQL Freelance DALIBO Partner.

Professionnal geological applications design and development (microtectonics, logging, miscellaneous utilities, database).

Software **programming** on GNU/Linux and MS-Windows platforms, scripting, occasionnal developments in Rebol, Red, Python, bash, PHP, Perl, Java, in Windows, GNU/Linux and Mac OS X environments.

Experience of **maintenance** of several dozens of **computers, local area network** management, **server management** under Windows NT 4.0 Server.

GNU/Linux systems (most distributions), MS-Dos/Windows 3.x, 9x, NT 4, NT2000, HP-UX, Mac OS X.

Fluent use of most standard software packages, good experience with:

- General packages: open office, excel, access, dBase, foxpro, winword, powerpoint, mapinfo, arcview, arcgis, qgis, grass, autocad, surfer, inkscape, gimp, etc.
- Packages specific to geology:
 - TecTri: software assisting in structural interpretation of heterogeneous fault populations (personal development)
 - GDM: geology and geostatistics software (BRGM)
 - Sermine: geology and geostatistics software (COGEMA)
 - Diamage: borehole logging imagery analysis program (Elf)
 - Integral+: geological and geophysical database (Petrosystems)

- Sierra
- Techbase
- Databases: maintenance of SQL databases in general, mostly PostgreSQL, with postGIS spatial extension
- Programming languages: **Rebol, Red, Python, bash**, Basic (QuickBasic, Visual Basic), (C, PHP, Perl, C++, Java), in Windows, GNU/Linux and Mac OS X environments.

MISCELLANEOUS

Mechanics: airplane engines, automobile general mechanics. Electricity. Mineralogical collection.

Travelling (lived in/visited Mauritania, Senegal, Algeria, Spain, Great-Britain, Italy, Belgium, Canada, Seychelles, Chile, Ghana, Russia, Ivory Coast, Madagascar, Mauritius, Argentina, Sudan, Mali, Guyane, Congo-Brazzaville, Burkina Faso), mountain trekking, swimming, diving, cycling, 4x4 piloting, motorbike, music (guitar), gold panning.

Computing: development, system, free softwares, ex-member of GRAL association: Linux User Group from Reunion Island; member of Euskalug association, Free Software user group from Northern Basque Country. Member of GNUsquétaires, Free Software user group in Gers. Founding member and President of Abistodegnux, Free Software association from Condom, Gers.

Member of GeolVal association (pyrenean geology) of the Société Géologique de France (SGF), of the Association des Géologues du Sud-Ouest (AGSO), of April.

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Note: Xs overwrite confidential data.

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Depuis, évolution de TecTri, développement de la version sous MS-Windows, commercialisation. Utilisation régulière dans mon cadre professionnel (COGEMA: étude structurale sur affleurements dans les Asturies, étude structurale sur sondages au Canada, BRGM: étude structurale au Chili, études structurales de gisements (Kenyasi, Ity, Tasiast, Réunion).

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