

## RESUME

Born on January 22, 1948 in Paris. To Italian emigrants.

Italian citizen by blood. French citizen by soil.

3 children : Julien Giol born 1975, Charles Giol born 1979, Louise Balotte-Giol born 1998

## INITIAL EDUCATION AND ADVANCED TRAINING

- 1965: Baccalaureate series C – Elementary Mathematics, Lycée d'Etat of 17-Royan.

Languages studied: English and German

- 1966-1968: Preparatory classes for entrance examinations for the Grandes Ecoles, Advanced and Specialized Mathematics, Lycées Henri IV and Camille Guérin of 86-Poitiers

- 1969-1971: Engineering School, Grande Ecole: ESTP, 57 Bd St-Germain, Paris

- 1971: Graduate in "Civil Engineering", academic degree, year of 71 ( [pdf](#) )

- 1972-1973: Annual cycle of Sciences and Techniques for Building and Construction Regulations, at the Centre Scientifique et Technique du Bâtiment (CSTB), Av. du Recteur Poincaré, Paris

- 1979-1980: "Heat and mass transfers" certificate, University of Bordeaux 1

- 1986-1988: Evening classes in English and Italian, Maison de l'Europe, Bordeaux

- 1988-1989: "Management Techniques" annual cycle, Institut Français de Gestion, Bordeaux

- 1989-1990: Masters of "Computer-Assisted Design/Computer-Assisted Manufacturing" (CAD/CAM, Catia) , Ecole Nationale Supérieure des Arts et Métiers (ENSAM), Bordeaux

- 1972-1999: Continuing Professional Education: Physical measurements, Data analysis, Heat exchanges, Acoustics, Energy savings, Thermal solar energy, Photovoltaic solar energy, Computerized structures calculation, Finite elements calculation, Various computer languages, Expert-systems, Micro-processing, Electronic data interchange (EDI), Telemetering and Teleprocessing, Smart houses and Domotics, Smart buildings and Building automation, Maintenance of Electric Vehicles

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## SALARIED EMPLOYMENT

## **1972-1990: IN CHARGE OF THE CONSTRUCTION-BUILDING DEPARTMENT of the South-West Centre d'Etudes Techniques de l'Equipement (C.E.T.E.) in Bordeaux:**

Creation and Management of the Department (intervention area: 20 departments of Greater Southwest France)

### ***Types of activity :***

- measuring performances of buildings, inspections, audits
- experimentation of technical innovations / technical-economic assessments
- studies and research
- technical assistance and consulting
- coordination, training and information

**Intervention scope :** sciences and techniques of building, energy control, information technology and specialized software, physical measurements

### **Personal responsibilities :**

- directing and managing the department, leading the team, technical management, customer relations, internal training and professional evolution, administrative and accounting monitoring direction
- experimentation of technical innovations, assessments, external information and activities, training, papers for professional and scientific conferences

## **1991-2000: IN CHARGE OF THE CONSTRUCTION TECHNICAL POLICY AND THE CONSTRUCTION REGIONAL INNOVATION PILOT SECTOR FOR AQUITAINE REGION, Aquitaine Regional Engineering Management in Bordeaux**

- Definition of the **regional technical policy of technical and organizational innovation** concerning housing-building
- Mounting and following experimental and demonstration operations **of the Regional**

## **Innovation Pilot Sector (SPIR)**

- **Technical research activities management of the regional professional Construction milieu** : Project owners, Prime contractors, Companies etc.
- Launching **progress procedures for the regional Public Works sector**: Quality Management, Protection of the Environment , Computerized data exchanges (EDI-BTP), etc.
- Inter-professional exchanges, **information and communication**, training

## **OTHER PROFESSIONAL ACTIVITIES 1975-1985: THERMAL AND PHOTOVOLTAIC SOLAR ENERGY**

- Founding Vice-President of the Aquitaine Solar Association, Bordeaux (**Goal pursued: Innovation, High Technology** )
- Promotion of solar energy applications in housing and services sectors
- Technological watch, information for the public, training professionals, newsletter,exhibits, seminars, experimentation, communications

**Personal achievement in 1985:** 20-apartment building with solar heating and solar hot water in Bordeaux-Blanquefort (best measured French yield in the field) ( [pdf](#) )

## **1986-1989: SMART HOUSES, DOMOTICS BUILDING AUTOMATION**

- Founding Vice-President of the Aquitaine Houses of the Future Association (**Goal pursued: Innovation, High Technology** )

- Promotion of domotic systems for smart houses and smart buildings (electronics applied to buildings for comfort, safety, communications, savings at use, teleprocessing, networks, etc.)
- Technological watch, information for the public, training professionals, newsletter, exhibits, seminars, experimentation, communications

**Personal achievement in 1989:** 27 single-family homes grouped in Bordeaux-Bruges equipped with upgradeable modular domotics with pre-wiring (a European First)

## **1986-1991: VARIOUS INVENTIONS (PROTOTYPES, PATENTS, MODELS, SOFTWARE)**

- Compact solar water heater with thermosiphon and concentration (prototype and patent)
- Sunwater and Rentcalc, software for technical and economical solar hot water calculations
- Light display device with integrated photovoltaic generator (patent)
- Two-mode instantaneous liquid cooling device (patent)
- Spa in a swimming-pool (patent pending)
- Systematically timed data processing (patent pending)

## **1990-1991: SPATARU & ASSOCIATES – ADEPT GROUP, LOS ANGELES, CALIFORNIA(sabbatical year, personally financed )**

- Various studies in the fields of Solar Energy and **Electric Vehicles**

## **1990-2016: ACTIVITIES CONCERNING ELECTRIC VEHICLES**

### **1990-1991: United States**

- **Study of American activities concerning Electric Vehicles**, notably in California and Arizona : regulations, demonstrations, meetings, competitions, amateur cars, incentives,

documentation

- **Detailed technical study of university Sunracers** (electric racing vehicles with solar cells) and the **"General Motors' SunRaycer"** from 1987, visits to universities, sunracers' races

## **1992-1993: France**

- **Papers and Conferences on Sunracers in various French Engineering Schools and Universities**
- **Reporting on the American university "GM SunRayce" in June 1993**
- **Reporting on the Australian "World Solar Challenge" in October 1993**
- Study of French activities concerning Electric Vehicles
- Participation in EDF Electric Company training periods **"Driving Electric Vehicles" and "Maintenance of EV", La Rochelle**
- Elaboration of a **"Regional Centre For Demonstration and Diffusion of Electric Vehicles" project, for the Regional Agency Aquitainergie**
- Papers and Conferences on Electric Vehicles for the Agency Aquitainergie

## **1993-1996: PERSONAL ACHIEVEMENT : SUNRACER " HELIOTROPE " (France and Australia)**

**Goal pursued: Innovation, High Technology**

- **Design and construction of the "Heliotrope Sunracer", for a first French participation in the World Solar Challenge Darwin-Adelaide, 3000 Km race, in October 1996:**
- 3rd place in the category "Lead-acid batteries" (out of 27 competitors)
- 21st place all-round (47 starters)

**2005 : Participation in EVS 21, an annual World Electric Vehicle Convention in Monaco, April 2-6 2005 : sunracer Heliotrope displayed on the SMEG Gold Sponsor's booth**

## **2006-2009 : PERSONAL ACHIEVEMENT : SUNRACER "Formula SolarE"**

- Design and Construction of the Sunracer "Formula SolarE, especially dedicated to fast races on circuits and road-rallies (such as FIA Alternative Energies Cup' events)
- 2009 Solar Event / Solar Challenge / winner

## **2012-2016 : “ Formula Giol “ - “ 2- Seater Sport Leisure EV “**

- Design and Construction of a Special Electric Vehicle's Prototype
- 2016 : Formula Giol Concept is displayed at the PARIS AUTO SHOW

## **2001-2016 : PRIVATE SALES AND REAL ESTATE ACTIVITIES**

- Collaboration in Château Fonrazade, AOC Saint-Emilion Grand Cru (Family property), sales activities
- 2005: Creation of the WEB-site : [www.chateau-fonrazade.com](http://www.chateau-fonrazade.com)
- Reconstruction and layout of family real estate properties (acting as : project owner + general contractor + superintendent)

## **PERSONAL CENTERS OF INTEREST**

### **AUTOMOBILE: Technical, Racing, Antique cars**

**1975 - 1976: racing - "Formule Bleue" single-seaters**

**1993 – 1996: designing and building the electric Heliotrope Sunracer**

**2001 – 2004: restoring antique cars**

(Fulvia Rallye 1.6HF 1970; Citroën 5HP Trèfle 1925; Citroën C4 Torpédo 1930)

"collection" of sports cars: Fulvia Rallye 1970, Porsche 911 SC 1983, Lancia Delta Intégrale Evo II 1994

**2006 - 2009: designing and building the electric Formula SolarE Sunracer**

**2012 - 2018 : designing and building the « Formula Giol » small series recreational EV's prototype**

### **LITERATURE: Autobiographical, biographical and historic works**

### **ART: Mosaics and Hard Stones**