Philippe CAMUS

Born 21st May, 1964 at Verviers (Belgium)
Nationality Belgian

23 Avenue de la plaine fleurie
38240 Meylan (France)

Phone #

Professional + 33 (0)4 76 88 90 47
Mobile + 33 (0)6 30 70 73 63

e-mail camus.ph@orange.fr

SKILLS

- Management of high-tech projects
- Knowledge of the research environment in France and Europe
- Expert in cryogenics and low temperature physics and millimetre instrumentation for astrophysics
- Knowledge of the application of computer modelling for design optimisation in Multiphysics
- Member of the AFFCCS committee since 2012

WORK EXPERIENCE

Research Engineer / Centre National de la Recherche Scientifique (France)

❖ Institut Néel (Grenoble, France) – Sep 2017

- Innovative solutions in cryogenics:
  - Easycool Project management: a continuous ADR solution for low temperature instrumentation (coll. CEA Grenoble)
  - Cryocoolers development (coll. Absolut System, Seyssinet)
  - low radiaoactive cryostat design for long-term storage (>60 yrs) of biological samples in cryobanks (PROCELTECH Project at Linksium, Grenoble)
- Research in low temperature detectors: KIDs applications (astrophysics, THz imaging, particle measurement,…) – lead of a consortium of 4 laboratories for a detector fabrication facility in Grenoble
- Organization of the DRTBT2018 school (CNRS) in Low Temperature Detection (Aussois, Dec 2018)
- Consultant and professional trainer in cryogenics

Research Scientist – Project Manager / Queen's University (Kingston, Ontario - Canada) Sep 2015 – Aug 2017 (On leave from CNRS)

- Project Manager of CUTE: a cryogenics facility for dark matter search, currently in the installation phase at SNOLAB (Sudbury, Canada)
- Successfully managed the review process required by the mining environment at SNOLAB
- Designed the advanced features of the experiment: low background material selection, microvibration control system, overall architecture of the experiment and procurement of the various parts (1 MCAD investment)
- Team management:10-20 persons involved in various institutions

Research Engineer / Centre National de la Recherche Scientifique (France), since August 1998

- ❖ Centre de Recherche sur les Très Basses Températures (Grenoble), since Januray 2001
- ❖ Institut d'Astrophysique Spatiale & CSNSM (Orsay), 1998 - 2000

- o Successfully managed the technical part of the Planck dilution cryocooler (ESA mission), member of the Project Team at the Institut d'Astrophysique Spatiale (Orsay), expert for Air Liquide/ALAT (Sassenage)
- o Designed several instruments for low temperature physics and far infrared astronomy (mainly CNES / CEA)
- o Providing classes in cryogenics and low temperature physics e.g. CRYOCOURSE European Advanced Cryogenic courses serie, professional training in Cryogenics, internal CNRS schools in Low Temperature Detectors (DRTBT)
- o Presented scientific communications in several international conferences,
- o Organised LTD12, an international conference on Low Temperature Detectors (Paris, July 2007) and chair of LTD16 (Grenoble, July 2015)
- o Coordination and elaboration of several research proposals for EC, ANR…
- o Consulting for various SME (marketing, R&D projects definition)

Engineer / Snecma design office at Villaroche (France), Aug. 1995 - Sep. 1997

- o Developed a modelling tool for the design of turbofan propellers
- o Managed technical projects in vibration, supervised 3 project engineers

System Modelling Manager / *Techspace Aero* (now in the Safran group), Milmort (Belgium), May 1992 - July 1995

- o Managed a project for the numerical modelling of the Vulcain engine (Ariane 5 main cryogenic engine), 5 university degree engineers
- o Developed design tools for turbofan engines
- o Participated to various R&D programs (Pratt & Witney, General Electric, ESA)

Research Engineer : Thermodynamics laboratory of the Liège University (Belgium), Sep. 1987 - May 1992

- o Developed numerical modelling methods in thermal physics
- o Tests analysis of the Vulcain cryogenic engine at the Société Européenne de Propulsion (SEP) at Vernon (France)
- o Taught thermodynamics and physics for engineers at the Liège University

EDUCATION

- ❖ **DEA** « Méthodes Instrumentales en Astrophysique et leurs Applications Spatiales », Université Pierre et Marie Curie (Paris 6), July 1998
- ❖ **PhD** in Applied Sciences at the Liège University, July 1997
- ❖ **Ingénieur Civil** Electro-Mécanicien (Aérospatiale) from the Liège University (Belgium), June 1987

LANGUAGES

- **Français**, mother tongue
- **English,** fluent
- **Deutsch**, basic

PUBLICATIONS

- More than 100 peer-reviewed papers in the field of cryogenics and millimetre astrophysics
- Editor of the LTD conference proceedings (LTD16, Grenoble 2015)
- Coordinator of the “Fascicule de cryogénie et supraconductivité” (edited by ‘Les Techniques de l’Ingénieur’), to be issued in 2018
- One patent on a low temperature cryo-cooler
- More than 40 research or technical reports

ONLINE PROFILES

- https://www.researchgate.net/profile/Philippe_Camus2
- https://fr.linkedin.com/in/philippe-camus-886b7130