BIOGRAPHY:

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Summary. GM received his Diploma degree in physics from École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, in 1990 and his Ph.D. degree in physics from the University of Neuchâtel, Neuchâtel, Switzerland, in 1995. From 1991 to 1995 and from 1997 to 2006, he was a research scientist at Observatoire Cantonal de Neuchâtel, where he became group leader in 2001. From 1995 to 1997, he was guest scientist at NIST, Boulder (CO). In 2007, he co-founded the Laboratoire Temps-Fréquence (LTF) at the University of Neuchâtel, Neuchâtel, Switzerland, where he is deputy director and Professor. His research interests include atomic spectroscopy, stabilized lasers, and frequency standards. He took part to the development of space qualified (Galileo EU GNSS system) and industrial lamp-pumped Rb clocks (1991-1995) and of the Swiss primary Cs continuous fountain (1999-2001).

Present team and research projects. GM is responsible of a research team of approximately ten scientists and engineers at the Laboratoire Temps – Fréquence. This team is involved in several research projects on vapour-cell atomic clocks and stabilised lasers that are funded, among others, by the Swiss National Science Foundation (SNF), Innosuisse, the European Union (EU) and the European Space Agency (ESA). These projects are conducted in collaboration with approximately twenty Swiss and foreign specialized laboratories and private companies. More generally, the research, teaching and scientific communications activities involve frequent contacts with most Time & Frequency institutes over the world, especially those specialized on vapour-cell atomic spectroscopy, atomic clocks and stable lasers. Since 2001, he has been principal investigator or co-investigator of more than 50 externally-funded research projects. The group has demonstrated state-of-the-art compact and miniature vapour-cell atomic frequency standards.

Publications. GM is author or co-author of approximately 300 scientific communications, including 62 articles in peer-reviewed journals. GM frequently gives review, invited or regular talks at international conferences and meetings.

Supervision of PhD thesis and students. GM is presently director of two PhD at the University of Neuchâtel: Nil Almat and Etienne Batori. Director or co-director of 7 completed PhD thesis at the University of Neuchâtel (2011-2017): Laurent Devenosges, Thejesh Bandi, Matthieu Pellaton, Danijela Miletic, Sylvain Karlen, Mohammadreza Gharavipour and William Moreno. GM has been member of the jury of more than 10 PhD and habilitation thesis at: EPFL (CH), the University of Franche-Comté (Besançon, F), the University of Siena (I), the University of Pierre and Marie Curie (Paris, F) and the University of Montpelier (F). Since 1998, he has been responsible of several master, diploma and other undergraduate stages.

Teaching activities, seminars and tutorials. Since 2007, GM is giving lectures in physics as a professor at the University of Neuchâtel. While he was at Observatoire Cantonal de Neuchâtel (1990-1995 and 1997-2007), he took part to the lectures of G. Busca and P. Thomann on Quantum Electronics at the University of Neuchâtel (selected chapters in atomic physics). Since

2013, GM is member of the scientific council and lecturer of the European Frequency and Time Seminar (EFTS) held in Besançon (F) once a year. GM organised in 2012, 2014 and 2016 a series of lectures on atomic clocks for the CUSO (Conférence Universitaire de Suisse Occidentale) at EPFL (Lausanne, CH). GM gave a tutorial on “Compact Atomic Clocks” at the joint IEEE IFCS – EFTF 2013 in Prague, in 2013. He has been responsible for the organisation of the EFTF tutorials from 2016 to 2018.

Committees and organisation of scientific conferences specialized in Time & Frequency. GM was Chairman of the Scientific Committee of the EFTF (European Frequency and Time Forum) for the 2013 (Prague, co-chair of the joint IEEE UFFC-EFTF-PFM), 2014 (Neuchâtel, member of the Local Organising Committee) and 2015 (Denver, joint IEEE IFCS-EFTF) editions. In 2019, he was co-chair of the joint IEEE IFCS-EFTF held in Orlando. GM is member of the Scientific and of the Executive Committee of the EFTF since 2012 and member of Technical Program Committee of the IEEE International FCS (Frequency Control Symposium) since 2013.