

# Honorary Members



## EVOLUTION OF HONORARY MEMBERS OF UPT 2012-2015

The conferring of honorary degrees is one way in which the University recognizes individuals distinguished by accomplishments consonant with the overarching mission of the University.

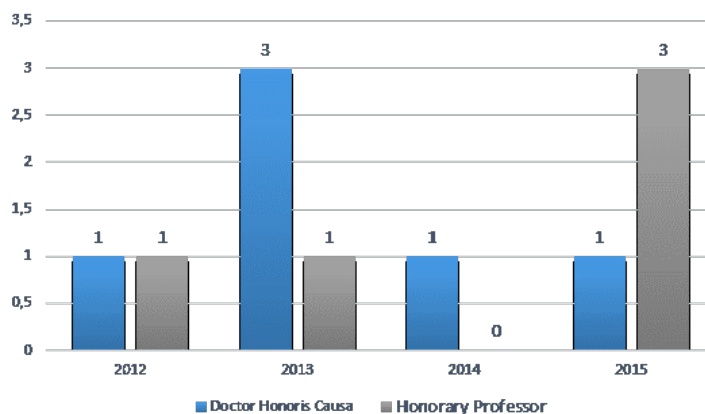
Nominees may be eminent scholars, scientists, artists, or professionals who have advanced their disciplines in important ways, or they may be individuals outside of the academic world who have made particularly distinguished contributions to society.

Politehnica University of Timisoara recognizes scientific excellence by conferring the honorary degree of Doctor Honoris Causa and Honorary Professor to distinguished Researchers for their contribution to the development of UPT and continuous support.

The University strives for a robust pool of honorary degree recipients enriched by individuals from all backgrounds of engineering.

We also find it rewarding to honor individuals who have not already been publicly recognized by a number of other institutions.

**Honorary Members of UPT**





## DOCTOR HONORIS CAUSA Professor Traian V. CHIRILĂ – Queensland Eye Institute

Professor TRAIAN V. CHIRILA was born on 14th of February in Arad, Romania. He spent his childhood in Chisineu Cris, Arad County, where he also graduated from high school in 1966. In 1972 he graduates as Bachelor of Chemical Engineering from the Faculty of Industrial Chemistry in Timisoara, in the specialty Technology of Macromolecular Compounds, and in 1981 he is awarded a PhD in chemical sciences by the same faculty. After obtaining his PhD degree, he accepted to go as a specialist in polymers processing to a country in North Africa, Libya. In December 1982 he reaches Austria where he asks for political asylum, and then he waited for seven months until Australia accepted him as a political refugee and relocated him to Perth, Western Australia, where he spend the next 22 years.

Professor TRAIAN V. CHIRILA, BEng, PhD, is the Chief Scientist of the Queensland Eye Institute in Brisbane, Australia, and Honorary Professor at Queensland University of Technology, the University of Queensland (at the Australian Institute for Bioengineering and Nanotechnology), and the University of Queensland (at the Faculty of Medicine and Biomedical Sciences).

Professor Traian V. Chirila is the inventor of the AlphaCor™ artificial cornea (initially known as the “Chirila keratoprosthesis”) and of the AlphaSphere™ orbital implant, both currently in clinical practice. He and his colleagues at Queensland Eye Institute were the first to investigate and report the use of silk proteins as biomaterials in ophthalmic tissue engineering.

Professor Chirila’s scientific activity has been widely recognized internationally. He is a member of Australasian Society for Biomaterials and Tissue Engineering, New York Academy of Sciences and American Chemical Society. Also, he is a member of the editorial boards of 11 scientific journals. In 2002, he was awarded Diploma of Excellence of the Euro-Asia Promotion & Cultural Foundation, and in 2014 he received the SRB Excellence Award from the Romanian Society for Biomaterials. He also became an Emeritus Member of the Politehnica Foundation.



The results obtained by Professor Chirila are in diverse research fields including polymer science, hydrogels, ophthalmic biomaterials, ophthalmic tissue engineering and regenerative medicine, supramolecular polymers, controlled release of bioactive agents, and history of science. His contributions to the science of biomaterials are recognized by all those working in this field and his name is forever linked to his contributions to ophthalmology and prevention of blindness. His scientific activity is not limited to the applications of polymers in ophthalmology. Professor Chirila has investigated the interaction between high-energy laser radiation and polymers; he invented and developed melanin-containing synthetic hydrogels, which are able to absorb UV and blue radiation; he has investigated the mechanism and prevention of spontaneous calcification of synthetic hydrogels and he demonstrated that the enforced formation of polymer interpenetrating networks (IPNs) can reduce calcium deposition; he developed a new concept for an artificial corneal endothelium; and other research projects. Most of the projects are intended to ultimately contribute to the worldwide efforts to eradicate blindness. The results of his work are presented in about 180 articles and book chapters, over 180 presentations at scientific gatherings, and 13 patents.

## HONORARY PROFESSOR

### Professor Jean Pascal CAMBRONNE - Université "Paul Sabatier" de Toulouse, France

Professor Jean Pasacal CAMBRONNE was born on 31.03.1963 in France and graduated "Ecole Central de Lille" in 1987. PhD Studies have been performed during 1988–1990 at "Ecole Central de Lille". PhD degree has been acquired in 1990.

In 1991 he becomes associate professor at "Ecole Central de Lille". In 1996 he gained the habilitation certificate and the quality to supervise PhD thesis. In 1997 he became professor at "Paul Sabatier" University Toulouse, where he also activates as researcher at LAPLACE Laboratory affiliated at C.N.R.S. Starting with 01.09.2012 he was evaluated as exceptional activity and he received a P.E.S. prize (Prime d'Excellence Scientifique).

Considering his recognized international professional prestige, during years, he held important professional positions:

- director of the GDR research group from C.N.R.S., comprising over 400 researchers from the Electrical Engineering field;
- expert of the "Agence de l'Evaluation de la Recherche et de l'Enseignement Supérieur (section Formation & section Recherche)";
- expert of the "Fondation pour la Recherche en Aéronautique et Espace";
- supervisor / director of the research team "Matériaux Diélectriques dans la Conversion de l'Energie", from the LAPLACE Laboratory of the "Paul Sabatier" University Toulouse, France;
- member of the "Comité National de la Recherche Scientifique – section 8", between 2008–2011 years;
- deputy director of the "Fédération de Recherche FERMAT", between 2007–2010 years;
- president of the "l'Agrégation de Physique Appliquée", between 2007–2012 years;
- manager of the master study program "Researches in electrical engineering", from "Paul Sabatier" University Toulouse.

#### Outstanding quality of the didactic activity

- Prof. Jean Pascal CAMBRONNE conducted a remarkable activity during his didactic career. He taught a number of 8 different disciplines from the electrical engineering field in French and in English. During his didactic career he followed all the hierarchical steps collaborating with different universities from Europe.
- Prof. Jean Pascal CAMBRONNE initiated in the engineering secrets 20 generations of graduates.
- He taught lectures and laboratory works from several disciplines: power electronic and electrical machines (Bachelor study cycle); energy static and electromechanical conversion (Master study cycle); electrical machines modelling (Master study cycle); insulation materials, magnetic materials, superconducting materials, piezoelectric materials used within the electrical engineering field (Master study cycle).



#### Scientific activity and professional recognizing

- Prof. Jean Pascal CAMBRONNE has also a remarkable activity within the scientific publishing area. He has a large number of publications with huge consistency proved by their professional level and the prestige of the publishing houses that published them.

The published works are mentioned in synthesis as follows:

- 27 papers published in international journals;
- 3 patents;
- 50 papers presented at international conferences;
- 3 monographers, books and lectures;
- 20 grants / research contracts;
- 20 PhD thesis supervised

#### Collaborations with Politehnica University Timisoara

During his professional career, Prof. Jean Pascal CAMBRONNE had several collaborations with professors from the Faculty of Electrical and Power Engineering, from Politehnica University Timisoara.

## HONORARY PROFESSOR

### Professor Franz QUINT- Karlsruhe University of Applied Sciences, Germany

Professor Franz QUINT was born on 24.08.1965 in Jimbolia, Romania. Professor Franz Quint began his studies in Timisoara, at Politehnica University, Electrical Engineering Faculty (1984 – 1986) , and has continued the studies at Karlsruhe Institute of Technology, Germany (1987 – 1990).

Nowdays, Franz Quint is full professor for Digital Communications since March 2002 in the Faculty for Electrical Engineering and Information Technology, at Karlsruhe University of Applied Sciences.

#### Professional Experience:

##### *Karlsruhe University of Applied Sciences, 2002 -*

- Appointed as full professor for Digital Communications since March 2002 in the Faculty for Electrical Engineering and Information Technology

#### Research interests:

- Information Theory and Coding
- Digital Signal Processing
- Digital Image Processing
- Digital Communications

##### *Airbus, 1997 - 2002*

- 1997 – 2002 development engineer at DaimlerChrysler Aerospace in Ulm, Germany (today Airbus) in the areas of Digital Communications, COMINT and Radar Signal Processing
- leader of project teams, since 1999 head of the department “Digital Signal Processing Algorithms”

##### *Karlsruhe Institute of Technology, KIT, 1993 - 1997*

- 1993 – 1997 researcher on a project of the DFG (German federal research agency) for automatic aerial image understanding
- 1997 PhD-thesis „Kartengestützte Interpretation monokulare Luftbilder“ (Map-based interpretation of monocular aerial images), awarded degree: Dr.-Ing. with summa cum laude

##### *Fraunhofer-Institute for Information- and Data-Processing Karlsruhe, 1990 - 1993*

- 1990 – 1993 researcher
- projects on industrial image processing and aerial image understanding

#### Collaborations with Politehnica University Timisoara

The cooperation between UPT and HsKA dates back to the year 2008. In May 2008, a delegation of HsKA consisting of Prof. Guntram Schultz, by then dean of the Faculty of Electrical Engineering and Information Technology of HsKA, Dr. Joachim Lembach, Director of the International Office of HsKA and Prof. Dr. Franz Quint, professor at the Faculty of Electrical Engineering and Information Technology, visited UPT. The visit was initiated by Prof. Quint, who was student at UPT in the years 1984-1986.



During the visit, meetings of the German delegation with the Rectorate and with the boards of the Faculty of Electronics and Telecommunication and the Faculty of Electrical and Power Engineering took place. As a result, an Erasmus student and staff exchange agreement and a bilateral agreement between the two higher education institutions has been signed. These agreements have been renewed in 2014.

Since then, counting both exchange directions:

- 180 students participated in project based learning in the project ProKaTim (Signal Processing Karlsruhe Timisoara);
- 48 students spent one semester at the partner institution for an Erasmus study semester abroad;
- 9 students spent three months in an Erasmus training stage at the partner institution;
- 9 research assistants spent research stages up to eighteen months at the partner institution;
- 4 research assistants have acquired their doctoral degree with the participation of professors from both institutions;
- 20 scientific papers have been published in cooperation between researchers of both universities;
- 29 teaching staff exchanges took place;
- 7 non-teaching staff exchanges took place;
- the cooperation employs 6 faculties from UPT, 4 faculties from HsKA and is strongly supported by the International Offices and the Rectorates of both Universities.

## HONORARY PROFESSOR

### Professor Francisc KLEPP – Politehnica University of Timisoara

Professor Francisc Klepp was born on 23 October 1940 in Timisoara, Romania. He followed Elementary classes (1947-1954) in Timisoara Joseph's Catholic Secondary School, and in 1957 he graduated "magna cum laude" from Timisoara Hungarian Mixed High School as a student with all excellent. Prof. Klepp graduated in 1963, the Politehnica University of Timisoara, Faculty of Mathematics and Mechanics, with excellent results, so immediately after graduation he was received as assistant professor. The PhD Thesis, Remarkable Finsler Structures and Finsler Geometry on Vector Bundles", was defended in 1982, at "Al. I. Cuza" University from Iasi. Currently, Professor Francisc Klepp live in Germany, Mosbach, the Neckar valley.

- Between 1963 and 1993 he worked at Politehnica University of Timisoara, Mathematics Department, first as an assistant professor, then from 1968 as associate professor, and since 1990 as professor holds Applied Mathematics courses in chemical engineering.
- Since 1990 the department of Mathematics established the courses in German-language, and Professor Klepp taught mathematics in German. In the same period, he lectured at foreign universities: Debrecen, Veszprem and Novi Sad.
- In November 1993, Professor Francisc Klepp moved in Germany. Here, between 1994 and 2013 was Professor for "Mathematics for Engineers" in Lörrach Electrical Engineering and Informatics Faculties. He taught mathematics and physics in Schopfheim Theodor-Heuss-Gymnasium. Parallel teacher training courses are held in Universities: Bazel, Karlsruhe, Freiburg and Hannover.
- In 2013, after fifty years of activity he retired.
- A passionate sports fan, he was vice president of the Politehnica Timisoara Sports Club men's handball, between 1982 and 1993.

#### Professor Francisc Klepp is a member of the following professional company:

- János Bolyai Mathematical Society – Budapest (since 1989);
- Mathematical Society Science from Romania (1961);
- Tensor Society (Japan – since 1985);
- Internatinal Mathematical Society for Chemistry (since 1985);
- Deutsche Gesellschaft für Chemisches Apparatewesen (DECHEMA – since 1990);
- Gesellschaft für Angewandte Mathematik und Mechanik (GAMM – since 1991);
- Gesellschaft Deutscher Chemiker (since 1991);
- Hungarian Natural History Society (since 1991);
- Transylvanian Museum Society [5] (EME, 1990), a founding member;
- Ormós Zsigmond Cultural Society, Timisoara (the 1968 Small Encyclopedia of the Free University successor)



#### Awards:

- In 1987, Prof. Klepp was assessed by Romanian Government for scientific, didactic, and educational work, with degree the "excellent teacher".
- At Politehnica University of Timisoara Professor Francis Klepp won 28 different awards at applied mathematics contests.

Professor Francisc Klepp attended countless professional congresses, conferences in:

- Romania: Iasi, Cluj, Oradea, Brasov, Targu Mures, Arad, Bucharest, Constanta, Craiova;
- Hungary: Budapest, Debrecen, Veszprem, Hungary, Sopron, Miskolc, Nyíregyháza, Szolnok, Zalaegerszeg, Szeged, Eger;
- Germany: Karlsruhe, Hannover, Dresden, Freiburg, Darmstadt, Erlangen, Stuttgart, Heidelberg, Göttingen;
- Switzerland: Basel, Zurich, Lausanne;
- Austria: Vienna, Linz;
- Serbia: Novi Sad;
- Croatia: Zagreb;
- Canada: Windsor, Ottawa, Waterloo.