

PERSONAL INFORMATION **Dr Ing Imrich Korpanec**



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Sex Mail | Date of birth 08/08/1944 | Nationalities CZ/NL

JOB APPLIED FOR POSITION **EXTERNAL EXPERT**

WORK EXPERIENCE

- 01.02.2019 **TIAG** – Transport Infrastructure Advisory Group, Founder, Senior Partner and Advisor on topics of Funding of Transport Infrastructure and Procurement, Research and Innovations projects for transport infrastructure, Knowledge Management
- 2008 – 2018 **General Secretary of EFRTC** – European Federation of Railway Trackworks Contractors responsible for the overall day to day management of the Federation.
- 2001 – 2007 **Deputy Director of UIC** Technical and System Departments, and further **Director of UIC Research** with responsibility for management of UIC Research and Development Programmes and their co-ordination with other railway associations (e.g. UNIFE, UITP, EIM, etc.) and EC. He also managed UIC world projects and UIC participation in the WCRR (World Conference on Railway Research). In this function he also performed other tasks on behalf of the UIC, in particular with regard to its representation in other bodies such as e.g. ERRAC (European Railway Research Council - one of the initiators of its funding), AG SST (EC Advisory Group for Sustainable Surface Transport), and standardisation bodies – ISO, CEN/CENELEC and ERA (European Railway agency). He was also responsible for initiation, drafting new project proposals and participation of UIC in EC projects including INNOTRACK (Innovative track systems) and others (in total 14 projects with an overall budget about € 140 million).
- 1991 – 2000 **Managing Director of ERRI** – European Railway Research Institute managing staff about 50 to 60 employees including 15 to 20 senior high professionals in various railway technology fields for acting as PM of individual research projects on contracts with clients. Client base – UIC, EC and third parties with annual budget in average 15 million Euros. Major achievement: initiation of ETCS project (ERRI question A 200 drafting Project declaration), setting the ETCS Project Office at ERRI and delivery the first set of functional and technical specifications for the future ETCS/ERTMC system to EC.
- 1986 – 1990 **Director of ORE/UIC** – Office for Research and Experiments in Utrecht/NL. Responsible for managing UIC projects for technology questions related to rolling stock, infrastructure and signalling. Reporting to ORE Control Committee - body consisting of Directors of Rolling stock and Infrastructure from 15 railways. Deliverables – about 30 to 40 technical reports per year as inputs for drafting and updating UIC leaflets. Supervision of in average 15 Technical Advisors leading international teams of railway technical experts.
- 1983 – 1985 **Director of the International Department at Federal Transport Ministry in Czechoslovakia, Adviser to the Minister of Transport.** Participation at high level meetings of governmental organisation such as UNO Transport Commission, ICAO (International Civil Aviation Organisation), IMO (International Maritime organisation), and non-governmental such as UIC and others. Preparation and participation at the bilateral meetings at level of Minister and his Deputies.
- 1979 – 1982 **Technical Advisor** for Infrastructure questions **at ORE/UIC.** Supporting international teams of railway experts for topical issues of the operation and innovation of railway infrastructure. Drafting technical reports and their presenting to Board of Rolling stock and Infrastructure Directors of 15 railways – members of UIC. Performing research studies on topics such as e.g. increase of axle loads to 25 t, track geometry assessment, vehicle track interaction, non-destructive testing, steered and steering

wheelsets, etc. Numerous publications on results of ORE research and presentation at various conferences as e.g. also in USA at the first Heavy Haul Conference in Colorado in 1982.

- 1975 – 1978 **Senior expert/manager** at Federal Transport Ministry in Czechoslovakia - **IT and R&D Department Dept.** Responsible for R & D programme of transport in the area of infrastructure and railways in particular. Supervision of the major projects and railway research centre including test centre in Velim. Participation on the feasibility studies and projects on the transport network development and modernisation of railway network.
- 1970 – 1974 **Senior Lecturer and Scientific Assistant at the Prague Technical University** – Civil Engineering Faculty – Transport Section. In this period he published several scientific articles dealing with vehicle track interaction, optimisation of track maintenance and renewal processes, innovative design of switches and crossings, etc. He was co-author of technical books on railway constructions and several textbooks for students. He also supervised diplomas works and provided assistance for PhD postgraduates. He also participated in several studies for Ministry of Transport on the development of Czech network including Prague junction and high speed feasibility study.
- 1967 – 1970 **Postgraduate student at Moscow Transport University with completion of PhD degree** for the work on finding solutions for implementation of innovative switches and crossings with various substructure design including composite and concrete sleepers, slab and frame track substructures (NB – no market uptake in 70, however actual implementation started in late 90 with concrete sleepers for S & C). Various publications on the related subjects in Russian railway technical journals and research proceedings.
- 1962 – 1967 Student at **Transport University in Zilina in Czechoslovakia** and later seconded to **Moscow Transport University** – Engineering diploma for Civil Engineering with specialisation to railway infrastructure.
- 1982 High school in building and civil engineering construction and working at railways as master for construction works

EDUCATION AND TRAINING

- 1994 Project Management for Engineers, Massachusetts Institute of Technology (see attached diploma)
- 1993 Managing Technical People and Operations, George Washington University (see attached diploma)
- 1975 CVUT – Czech Technical University, Senior lecturer, submission of habilitation
- 1967 – 1970 PhD degree study at Moscow University of Transport Engineers on Civil Engineering, railway topic (see attached diploma)
- 1965 – 1967 Study at Moscow University of Transport Engineers, Civil Engineering, specialisation – railway infrastructure (see attached diploma)
- 1962 – 1965 Study at Transport University Zilina in Czechoslovakia
- 1962 High Technical school on Construction, specialisation – Civil Engineering - transport Infrastructure

PERSONAL SKILLS

Management and language proficiency for working and managing international projects and teams,
 Experience from managing research
 Extensive knowledge of railway system

Mother tongue(s) Czech and Slovak

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|-------------------|---------------|----------|---------|
| Other language(s) | UNDERSTANDING | SPEAKING | WRITING |
|-------------------|---------------|----------|---------|

| | Listening | Reading | Spoken interaction | Spoken production | |
|-----------|-----------|---------|--------------------|-------------------|------|
| English | C1/2 | C1/2 | C1/2 | C1/2 | C1/2 |
| German | C1/2 | C1/2 | C1/2 | C1/2 | C1/2 |
| French | C1/2 | C1/2 | C1/2 | C1/2 | B1/2 |
| Russian | C1/2 | C1/2 | C1/2 | C1/2 | C1/2 |
| Dutch | B1/2 | B1/2 | B1/2 | B1/2 | B1/2 |
| Polish | A1/2 | A1/2 | A1/2 | A1/2 | A1/2 |
| Hungarian | A1/2 | A1/2 | A1/2 | A1/2 | A1/2 |

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| Communication skills | good communication skills gained through my experience working in international teams, as project manager for EC projects, member of various international bodies and working groups and at senior level, as Managing Director of ERRI, UIC Director of Research and Secretary General of EFRTC |
| Organisational / managerial skills | project manager for EC, UIC and ORE research projects, Managing Director of European Railway Research Institute (60 employees, EC and research projects year with annual budget of about 15 million of Euros per year), Director of UIC Research, EFRTC Secretary General |
| Job-related skills | good command of quality control processes introduced at ERRI, managing technical people, accountancy experience from management of public and private entities |
| Computer skills | good command of Microsoft Office™ tools mastering member area of EFRTC website knowledge of computer hardware and some programming languages |
| Other skills | Lectures at universities (CVUT Prague, TU Delft, MIIT Moscow, etc.) Master certificate for construction, renewal and maintenance works and practical experience Several musical instruments Sports – skiing, jogging, swimming |
| Driving licence | Driving licence category B |

ADDITIONAL INFORMATION

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| Publications | <p>Numerous publications/articles issued in various journals and proceedings in the Great Britain, Germany, France, Czech and Slovak republic, Russia, Italy, Poland, Japan, U.S.A. and Australia with selection of some relevant to application as e.g.</p> <ul style="list-style-type: none"> - Rivier R.E., Korpanec I, "Effective management of track maintenance within sight", Railway Gazette International, June 1996 - Korpanec I., Pradier H., "ECOTRACK is ready for testing", International Railway Journal, September 1994 - Korpanec I. „Das europäische Institut für Eisenbahn-forschung (ERRI) und sein Beitrag zum technologischen Fortschritt der Bahnen“, Eisenbahn Technische Rundschau, 12/1994 - Korpanec I „Budovanie siete vysokorychlostnych trati v Europe“, Doprava, 1997 – Creation of high speed network in Europe – translation from Czech - Korpanec I "Switches & crossings on the unconventional subgrade constructions" (MIIT, in Russian 1975) - Korpanec I. " "Major projects of European railway research," RRR, 1999 (in Japanese) - Foster A., Korpanec I, " ERRAC develops European Strategic Rail Agenda, International Railway Journal, 9/2006 |
| Presentations Conferences Seminars | <p>Numerous presentations at Conferences/Seminars in Europe and overseas as e.g.</p> <ul style="list-style-type: none"> - USA 1982, Heavy Haul Conference in Colorado, "European research for increasing axle loads of freight trains" - Australia, Rockhampton 1998 & China Beijing 1999 " ECOTRACK: Track Management System to reduce LCC of track maintenance and renewals" - WCRR 1999, Tokyo "Virtual assessment of railway systems and components" - Belgium 2000, Asset Management Conference, Brussels, "A spectrum of Asset Management Systems for Railway Infrastructure" - UIC High speed Milan 2008, "Joint European Research to New Concepts for. Modular |

- Trains including HST – MODTRAIN project”
- EC - EIM Conference: En-Route to Rail Sustainability 2008 “ Reducing infrastructure costs through long-term planning and contracts”
 - Contracting strategies – types of contract, experience and way forward, Bucharest 2009
 - Key note speakers at several UIC seminars & workshops
- Projects
- Feasibility study for high speed lines design along new highways, 1973
 - Railway connection to Prague airport, 1974
 - Reconstruction of Prague railway junction, 1977
 - EC research projects as e.g. large scale integrated projects MODTRAIN, INTEGRAIL, INNOTRAK and recently AUTOMAIN, Capacity4Rail, and many others in FP6 & FP 5 in the past

- Membership
- EC Advisory Group for R & D – AG SST in FP6
 - ERRAC Steering Committee
 - ERA TSI Infra
 - CEN TC 256/SC1

REFERENCES

- For current and recent activities
- Dr Libor Lochman, CEO of CER (Community of European Railway Undertakings and Infrastructure Managers), Brussels, Belgium
 - Philippe Citroen, Director General of UNIFE (International Union of Railway Industry, Brussels, Belgium
 - Jo Urlings, former President of EFRTC – European Federation of Railway Track Contractors
- For past activities
- Mr Philippe Roumequère, former Deputy CEO of SNCF and Director General of UIC
 - Mr. Roland Heinisch, former CEO of DB AG and CEO of DB Netz, holder of UNIFE/CER award
 - Bengt Sterner, former Head of SJ Signalling Sweden, initiator of ETCS project at ERRI delivering first set of FSS and TSS for EFRTC/ERTMS system to EC, holder of UNIFE/CER award

ANNEXES

- PhD degree diploma awarded by Moscow Institute of Transport Engineering in 1970 and certified by Ministry of Education of Czech republic in 1974
- Civil Engineering degree after completion of courses at Transport University In Zilina and diploma work at Moscow University of Transport Engineering in 1967
- George Washington University, Managing Technical People and Operations, 1993
- Massachusetts Institute of Technology, Project Management for Engineers, 1994

Some examples of articles and/or abstracts published

- 1992, Revue Générale des Chemins de Fer (full article/interview concerning ERRI in French)
- 1998, Railway Research Review (full article on European railway research in Japanese)
- 2000, Railway Gazette (full article on ECOTRACK system in English)
- 2003, International Railway Journal (abstract on ERRAC developing first SRRA 2020)
- 2009, article on Contracting Strategies published in UK & Romania

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