

JEAN-PIERRE CONTZEN

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Curriculum Vitae of Jean-Pierre, Raymond, C.A.M. CONTZEN

-Born in Etterbeek, Belgium on 12 February 1935 . Belgian Citizenship

-Married, 4 Children

Academic training:

From 1952 to 1957, studied at the Ecole Polytechnique (Faculté des Sciences Appliquées) of the Free University of Brussels. Obtained in 1957 the diploma of Ingénieur Civil Mécanicien-Electricien (grade légal) with " La Plus Grande Distinction". Obtained the same year the Post-Graduate Certificate in Nuclear Physics at the same University

Professional career:

-1957-1959: Entered at the Reserve Officers' School of the Corps of Signals (Troupes de Transmission); following graduation, assigned by the Ministry of Defense to the Belgian Nuclear Center of Mol (SCK-CEN). Participated in the development of the first Belgian analog computer studied jointly by the Free University of Brussels and ACEC. First reactor dynamics computation of the safety of the BR-3 nuclear power plant

-1959-1963: Pursued civilian career at SCK-CEN. Seconded to Ferranti Ltd in Manchester for the development with the University of Manchester (Prof T. Clibburn) of

a

special purpose Mercury digital computer, first trials of hybrid computation (link between analog and digital computers). Upon return from United Kingdom, successively Group Leader in charge of scientific computation, Head of Advanced Projects Section. Responsible for the reactor dynamics studies related to the safety of the BR-2 and BR-3 reactors; followed the specialization courses of the Netherlands-Norwegian Reactor School in Kjeller (Norway). Subsequently, in charge of the "Dynamics" section of the VULCAIN project, a joint Belgian-British project for the development of a freight ship with nuclear propulsion. Launched at Mol the first activities in Belgium devoted to Space applications of nuclear energy and to advanced energy conversion processes (thermoelectric, thermoionic, MHD,EFD); participated as alternate to Prof Jaumotte, in the relevant work of the Advisory Group on Aeronautical Research and Development of NATO

-1964-1969: Appointed Senior Engineer at the Future Programs Directorate of the European Launcher Development Organisation in Paris. Collaborated with

Prof

Ruden in the development of space applications of nuclear energy, first studies at European level of radioisotopic generators and of nuclear rocket propulsion. Responsible of a joint project with AEA Winfrith Heath, CEA Grenoble, Belgonucleaire and the Free University of Brussels for the theoretical

and experimental study of a compact rocket reactor; world premiere with the testing of nuclear fuel in gaseous hydrogen at 2000°K for more than an hour. First inventory of the European potential in Space relevant advanced technologies

-1967-1969: In view of his experience in radioisotopes, acted as Consultant to the European Nuclear Energy Agency of the OCDE. Established a European collaboration on radioisotopic batteries for energy production and for medical applications (first isotope fuelled cardiac pacemaker)

-1969-1974: Transferred to the European Space Research Organization in Paris. Initially Mission Manager for Telecommunications Satellites, was responsible for the development of the OTS project, the first European telecommunications satellite. Became under Sir Herman Bondi, Deputy Director for Space Applications, developed several Application Satellites programs: OTS follow-up, AEROSAT for air traffic control, MAROTS for maritime communications, METEOSAT for meteorology and climate. Represented ESRO in the World Meteorological Organization, the International Telecommunications Union, INTELSAT, the International Maritime Consultative Organization, the Conference of European Meteorological Offices' Directors. Shortly before his departure, assumed the functions of Director of Telecommunications

-1974-1981: Appointed Director at the Commission of European Communities. From September 1974 to April 1975, Director for Prospective Studies at the Ispra establishment of the Joint Research Center (JRC), then Director of Programs at the JRC Headquarters in Brussels. In charge of the reform of

the

JRC after a long crisis from 1968 to 1973, implementation of a policy of diversification towards non-nuclear activities: consolidation of advanced materials work at the Petten establishment, launch of new activities in non-nuclear energy (hydrogen production and utilization in particular), in environment and remote sensing at Ispra, introduction of non-nuclear standards and reference materials in the activities of the Central Bureau for Nuclear Measurements at Geel

Represented the Commission in various groups of the newly created International Energy Agency (IEA) of the OECD. Appointed Chairman of

the

IEA Working Party on Hydrogen, promoted in this framework, an international program on the utilization of this clean energy vector. Participated in the pre-adhesion discussions with Greece

-1981-1986: Promoted within the Directorate General for Science, Research and Development, Director for Science and Technology Policy, Scientific Coordination and Cooperation with Third Countries. Under the impulse

of Vice-President Davignon, was responsible for the formulation and launching of the first Community R&D Framework Program, and for the subsequent coordination of the various specific programs. At the initiative of Prof. Prigogine, developed within the CODEST (European Committee for Science and Technology), the first Science Stimulation Programme. Attempted to relaunch the coordination at Community level of national S&T policies. Took new initiatives for impulsing the external dimension of

cooperation
European S&T Policy: revival of the COST cooperation, extended

of the Community with EUREKA, opening of ASEAN and China to S&T cooperation, negotiation of S&T agreements with Japan (Abe-Davignon exchange of letters), with the EFTA countries notably Norway, Switzerland, with Quebec (the Euro-Quebec Hydro-Hydrogen project) and with the ex-Yugoslavia(Cheysson-Lonçar agreement), reinforcement of the links with Mediterranean countries.

Participated in the pre-adhesion discussions with Spain and Portugal.

-1986-1997: Appointed Director General of the Joint Research Center (JRC). Following a major political crisis, responsible for implementing an in-depth reform of the Center , of its structure, of its operation. Restructured the Center in thematic Institutes(Environment, Space Applications, Reference materials and Measurements, Transuranium Elements, Advanced Materials, System Engineering and Informatics, Safety Technology); added an Institute for Prospective Studies in Sevilla, reinforced the links with national research bodies in research networks and emphasized the support to Community policy formulation and implementation. Developed contacts with Industry through contract research. Re-established social peace in clarifying the issue of Researcher status.

Set up and chaired for the Commission the Space Advisory Committee of the European Union .Under the impulse of President Delors, together with his colleague Brinkhorst, Director General for the Environment, set up the European Environmental Agency, now located in Copenhagen; from 1993 to 1997, was member of the Board of this Agency. Was also a founding member of the European Association for the Education in Management of the Environment (EAEME) in Varese.

Conducted with the active consent of the Commission several other activities during the same period i.e.:

-1990-1996: Appointed President (with executive responsibilities) of the European Center for Research and Training in Advanced Scientific Computation(CERFACS) in Toulouse. Had again to introduce drastic reforms for a Center in crisis: reorienting strategic scientific options, opening more widely the Center to the European and international dimension, introducing new financial schemes (currently the Center is operated without public subsidies)

-1991-1996: Alternate Professor at the Free University of Brussels, Institut d'Etudes Européennes and then Ecole de Commerce Solvay/Faculté des Sciences Appliquées. Lectures on Technology Management

-1991-1999: Member of the Kuratorium of the Fraunhofer Institute for Atmospheric Environmental Research in Garmisch-Partenkirchen (still a member of the Fraunhofer Gesellschaft)

-1992-1997: Member of the Standing Committee of START (Global Change System for

Analysis, Research and Training) in Washington; as European member, ensuring the liaison between European Global Change activities and developing world needs.

-1996-1997: Chairman of the Board of the International Science and Technology Center in Moscow. Responsible for impulsing this Center created by the G 7 to assist countries of the ex Soviet Union in the reconversion of their military S&T organizations

-1996-1999: Chairman of the International Advisory Committee of the Portuguese Ministry of Science and Technology. Conducted the evaluation of all "Laboratorios de Estado"

-1997-1999: Special Adviser to Commissioner Hans van den Broek , Member of the European Commission responsible for external affairs. Activities centered around the issues of the technology contribution to the Common Foreign and Security Policy (CFSP), of non-proliferation and of nuclear safety in the East. Chaired the Panel of High Level Advisors which produced for the European Union a report on the safety of nuclear installations in Central and Eastern Europe

Current activities:

Special Adviser to the Portuguese Minister for Science and Technology, notably for assisting the Minister during the Portuguese Presidency of the European Union.

Member of the Scientific Advisory Committee of the International Science and Technology Center: role of scientific advice on project proposals, strategic guidance on future activities, notably on technology transfer. Specific responsibility as International Coordinator of the ISTC special Y2K program

Member of the Board of the Institute of Advanced Studies of the United Nations University in Tokyo; beyond Board tasks, associated to a research project on Mega-Cities (transport and urban development, role of culture in urban revival)

Vice Chairman of the Board of the von Karman Institute for Fluid Dynamics in Rhode St Genèse. Assists the Chairman, Prof. Jaumotte.

Other Current functions:

Member of the " Comité des Applications de la Science de l' Académie Royale des Sciences,des Lettres et des Beaux-Arts de Belgique "

Co-Chairman, with Acad.Laverov, of the Scientific Council of the NANSEN International Environmental and Remote Sensing Center in St Petersburg

Member of the Strategic Council of the Free University of Brussels

Member of the Scientific Committee of the " Institut Royal pour la Gestion durable des Ressources naturelles et la Promotion des Technologies propres"

Member of the Scientific Advisory Committee of the Forschungszentrum Karlsruhe (FZK)

Honours:

Knight of the Order of the Crown (Belgium)

Ehrenkreuz für Wissenschaft und Kunst, I.Klasse (Austria)

Silver Medal of the "Consejo Superior de Investigaciones Cientificas" (Spain)

Researcher "Honoris Causa" of the " Laboratorio Nacional de Engenharia Civil" (Portugal)

1997 NANSEN Polar Bear Award (Norway)