

CICIND

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## THE AUTHORS OF THE CHIMNEY BOOK

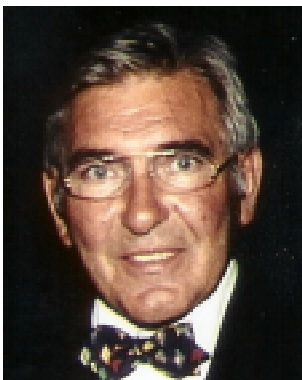
This book is the result of a collaborative action of 18 persons who are specialists in their subjects all in conjunction with chimneys and related fields. All but one are Members of CICIND. Below is a short CV and a photo of each author in the sequence they appear in this book.

### Malcolm Pratt



Over the last 30 years with Entec. Malcolm has conducted and led a large number of air quality and environmental impact assessment projects some of which required the determination of chimney heights. He has provided air quality evidence at a number of major public inquiries concerned with incinerators and airports.

### Klaus K. Kaemmer



is a German citizen. He studied mathematics and physics and earned a doctorate in applied mathematics. In 1972 he joined KARRENA where he worked closely together with Dr. Bottenbruch, the first President of CICIND. He joined CICIND already in 1976. He presented papers at the CICIND Conferences in Edinburgh, Munich and Brighton. He was involved in major chimney contracts such as a 360 m chimney and many chimneys in the Middle East, South Africa and Asia. In all cases he was responsible for the contract handling and the construction work. He was appointed the Secretary of CICIND on 1<sup>st</sup> of May 2004.

### John Turner



is the UK's foremost independent expert on the design, performance and maintenance of industrial chimneys and natural draught cooling towers. A highly qualified, independent consulting engineer with over 25 years experience in his specialist areas, his clients include oil, power and industrial companies in the UK and elsewhere. John is chairman of the CICIND maintenance committee and member of the steel and concrete chimney committees, and the seals and metallic materials committees.

**Henk van Koten**

from Netherlands is member of CICIND since the beginning in 1973. After his studies in mathematics and civil engineering he worked for a few years as contractor and in an engineering office. Afterwards he moved to a Dutch Research Institute. He gave lessons in applied mechanics at the Technological University of The Hague during many years and was active as consultant in the Chimney field.

Presently he is technical director of Flow-Engineering a Dutch company specialized in the design and fabrication of damping structures.

**John Wilson**

is a Professor of Civil Engineering at Swinburne University of Technology in Melbourne. Prior to this appointment he worked as a senior academic at the University of Melbourne for some 14 years and as a consulting engineer for over 10 years with the SECV and Arups in their London and Melbourne offices. He has a Bachelor of Engineering degree from Monash University, a Master of Science degree from University of California (Berkeley) and a PhD from University of Melbourne. He has a research interest and expertise in structural systems, earthquake engineering, structural dynamics and sustainable structures and has consulted

widely in these fields. He has designed a number of tall reinforced concrete chimneys and has carried out extensive research into the earthquake behaviour of such structures using both analytical and experimental techniques.

**Mario Poli**

is Italian citizen from Venice. He went through all the stages of a CICIND member: Guest, Member, delegate in the Brick Lining Committee, Chairman of the Thermodynamic Design Committee and finally President of CICIND from 1995 to 1997.

In September 1993 he organized the famous CICIND Meeting in Florence which was one of CICIND's social highlights. Mario has impressed the CICIND Members with his high technical skills, his friendly attitude and his strong interest in promoting CICIND.

**Roger Bierrum**

joined CICIND in 1980, became the President from 1997 to 2001. He graduated first in Mathematics and then in Engineering at Oxford University. In 1962 he joined the firm founded by his father, becoming Chairman in 1974. Since his time he has been involved in the design, construction or repair of major structures on almost every power station and oil refinery in the British Isles. He was a member of BS 4485 Committee "Structural design of cooling towers", the CICIND Steel Liner Committee, and the CICIND Concrete Chimney Committee. Since his retirement in 1997 he serves as a Consultant to Bierrum International Ltd.

**Piotr Noakowski**

graduated from the Warsaw Polytechnic in Civil Engineering and continued his education at the Technical University of Munich. His involvement with chimneys and CICIND started in 1981. Since then he has been engaged in the design of concrete stacks. Since 1989 he is director of FaAA in Düsseldorf, Germany, an expert office on industrial structures. Since this time he teaches at the Dortmund University the subject "Nonlinear Statics of R/C Structures". Apart from his work with CICIND he is active member in several international committees on structural design.

**Giovanni Di Poi**

born in 1959, is Italian and has been a member of CICIND since 1992 becoming elected to the Governing Body in 1999 and newly elected in 2003. After graduating as a Civil Structural Engineer in Milano in 1984 he was involved as Project Control Manager in an Italian Company. In 1989 he joined Mariani Battista, one of the leading Companies involved in the design, construction and maintenance of chimney and refractory linings. He started as Project Manager and became soon the Technical Director of the Design Department of Hamon Mariani Battista. Presently he is the Technical Director of the Design Department of the Company CRInternational S.r.L.

Giovanni has been an active member of the CICIND Steel Liner Committee and was the Italian delegate in CEN/TC297 and the convenor in the Working Groups WG-4 Brick Linings and WG-5 Product Specification for brickliner materials.

**Raymond Warren †**

Born in Rome, GA, Ray graduated from Auburn University in Mechanical Engineering. After serving as an Officer, he moved to Atlanta in 1956. Here he started his own company in 1967. He was a registered Professional Engineer in 11 U.S. states. He was past President and Board Member of CICIND and served on several National engineered equipment Standards establishing committees. He was active in business as well as religious, community service and educational activities.

**Max Beaumont †**

Born in 1922 in South London. He joined the family business founded by his Grandfather as a steeplejack. After several military services in the R.A.F. he returned to the family business and expanded the company rapidly into the steel chimney market and became the largest UK manufacturer exporting chimneys worldwide. Max was acknowledged worldwide as an expert in steel chimneys and became President of many Federations, Societies and Technical Institutes.

**Paul Arckless**

Paul started with the Bierrum Group straight from University and in 1999 was promoted to Chief Engineer.

Paul was responsible for the design of many tall chimneys, particularly, the 235m multi flue stack at Callide in Queensland, two 200m high multi flue stacks at West Burton in the UK and a 160m high natural draught cooling tower in Turkey. Paul now works for Curtins Consulting Engineers plc in the UK.

**Paul Kingham**

Paul Kingham joined Bierrum and Partners Ltd after taking a degree in Civil Engineering and has worked on the design and construction of chimneys for 25 years.

He was the project manager for an FRP lined steel vent stack at ICI Runcorn and for the new FRP flues at Eggborough Power Station. He is now Engineering Manager of Bierrum International Ltd.

**Bernhard Kremser**

was born in 1954. He studied at the Technical College, in Aachen, Germany and graduated as Dipl.-Ing. in 1980. He joined the STRABAG BAU-AG a leading German Civil contractor in 1980 as Design. After six years working on several national and international projects, he transferred to OOMS-ITTNER-HOF GmbH the Chimney subsidiary of Strabag in 1986 as manager of the technical department.

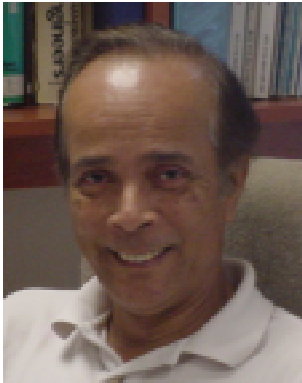
Here he gained experience in chimney design and engineering for all types of chimney constructions.

**Albert de Kreij**

Albert de Kreij was born in 1964 in Rotterdam. He is a graduate of the Erasmus University, with a degree in Business Economics.

In 1989, Albert joined Hadek Protective Systems, which specializes in the internal protection of power plant ductwork and chimneys. During his work with Hadek, Albert had gathered extensive experience using thin film lining systems and borosilicate glass block linings. He has been closely involved in a number of technical studies and on the use of borosilicate glass block linings.

### **Arun K. Bhowmik**



is the Manager for Repair and Maintenance for Hamon Custodis. He has over 30 years structural engineering experience, and is responsible for all engineering activities related to the company's chimney repair and maintenance business.

He has the overall responsibility for all engineering activities in connection with design, construction, repair, retrofit, renovation, and maintenance of industrial chimneys. He served as engineering manager for over 1000 Chimney-design, repair, and retrofit projects in US, Canada, and elsewhere.

He published papers about pressurization of chimneys, keeping chimneys in step with plant changes and many others. Arun is member in the committees: ACI-307, ASME-STS 1, ASTM (C-1298), ASCE

### **Mike Pritchard**



Following university, articulated pupilship with a civil engineering contractor, Mike sought experience in the energy industry. In 1969 he joined Esso Engineering Services Ltd, a newly formed European offshoot of Esso of Exxon Mobil Engineering Europe Ltd This has always been a relatively small multi-discipline organisation, of about 50 engineers who provide engineering back-up for Exxon Mobil's European refineries, and plants. This involves also specifying new projects, estimating their cost and monitoring the engineering design. Mike spent 24 years as a civil engineer in this organisation until his retirement in 1993.

Mike was a founder member of CICIND in 1973. He was chairman of a number of technical committees and became President from 1985 to 1987. Following his retirement from Esso, he became CICIND Secretary for 4 years.

### **Mark Meyts**



worked for the past 8 years with ExxonMobil Engineering in the US and UK, providing technical consulting to refineries, chemical plant and Liquefied Natural Gas terminals. Work includes troubleshooting structural deterioration, recommending inspection, reviewing structural reports and making recommendations on continued service of structures, including steel, concrete and brick chimneys.

Previously an employee of Tractebel Engineering, Brussels he was involved in the design and project management of Public Works and Industrial development in Europe, South America and the Middle East.