

Membership of CTCB-I Board

The membership of the CTCB-I is made up of the following delegates.

- a. Two delegates nominated by each Society who run, have run, or aspire to run CTCB-I courses;
- b. One course co-ordinator from each CTCB-I course;
- c. Technical experts elected by the Board of Delegates.

Each of the delegates has one vote. A delegate may be authorized by a written proxy to vote also for another member. All of the above delegates shall also be able to vote on any resolutions circulated by letter or email.

Chairman: Koos Agricola. Koos is an Applied Physicist at Research and Development of Océ Technologies BV since 1986. Océ Technologies BV develops and produces printing systems for the professional market. For the production of various materials and components cleanrooms are used. He has designed and operated cleanrooms and cleanroom process equipment. He also investigated the effectiveness of various cleaning and contamination control methods. He is the secretary of the VCCN and chairman of the ICCCS Education Board and teaches the VCCN courses 'Cleanroom behaviour', 'Cleanroom design and construction', 'Cleanroom cleaning (basic and advanced)' and 'Cleanroom Technology'. He represents The Netherlands ISO TC209 and CEN TC243 and is an expert in many Working Groups.

Secretary: Chris Delaney. Chris has over twenty years' experience in cleanrooms. He has worked in the medical devices, semiconductor, food and pharmaceutical sectors. Chris is Irish Subject Matter Expert ISO TC 209 WG 12 and Education and Training Convenor for the ICS. Chris is also a member of ICCCS Education Committee (IEC)

Chris has worked in some of the leading pharmaceutical companies and has developed many contamination control programs and procedures. Chris is also an executive member of the Irish Cleanroom Society and has developed and delivered a number of training courses on contamination control and cleaning in both Ireland and the UK.

Education Secretary: Bill Whyte. Bill Whyte is an Honorary Research Fellow, Glasgow University, Scotland. He has been involved with cleanrooms for over 50 years. He has written over 120 reports and papers, and two books on cleanroom design and cleanroom technology. He is a member of British and International standards committees writing the International Cleanroom standards.

Treasurer: Philip van Beek. Philip is an independent consultant. He has experience in the construction of cleanrooms since 1980. First he was employed by a supplier of filters and after that he had positions at two cleanroom contractors. He was involved in more than 200 projects in the pharmaceutical and micro-electronics industry. All projects, without any exception, were realized with tailor-made solutions. He is the treasurer of the VCCN and a member of the VCCN Education Board. He is also a member of the ISPE and TVVL (Dutch HVAC society), has a broad vision on the cleanroom market from design to realization. As author of various articles on cleanroom realization and speaker on various congresses he has a broad experience. He has a CTCB Professional certificate and CTCB Cleanroom Technology certificate.

Delegates from Ireland (Irish Cleanroom Society: ICS)

Chris Delaney. Course Coordinator Chris Delaney. Chris has over twenty years' experience in cleanrooms. He has worked in the medical devices, semiconductor, food and pharmaceutical sectors. Chris is Irish Subject Matter Expert ISO TC 209 WG 12 and Education and Training Convenor for the ICS. Chris is also a member of ICCCS Education Committee (IEC)

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Peter Fernie. Peter is a Natural Sciences graduate of Oxford University and is the Managing Director of Fernie Technical Services which supplies contamination control materials, and training services to the Irish Cleanroom industry. After experience in the scientific instrument, process instrumentation and oil and gas industries he commenced in 1982, cleanroom related activities as a sales distributor for a number of Companies in the semiconductor and electronics industry in Ireland. Specified and managed the installation and commissioning of semiconductor facility for the Indian Government 1985 -1988. From 1988 involved in Irish Cleanroom sector supplying materials, floor coverings and production equipment. In 1997 initiated introductory training courses in Ireland for cleanroom personnel in conjunction with Bill Whyte. In 1998 was founder member of Irish Cleanroom Society and was the Secretary until 2014. In 2003, he established CTCB courses in Ireland in collaboration with S2C2, and co-ordinated them until 2014. He now acts as an examiner for courses in Ireland and England.

Delegates from United Kingdom (Scottish Society for Contamination Control: S2C2)

Tim Triggs: Tim is General Manager of UK operations, Director of EMEA of Air Technique International since 2016. A summary of ATI, and where DOP Solutions and the Academy for Cleanroom Testing fit: -supply of instrumentation and monitoring solutions for testing High Efficiency air filters or monitoring critical environments, on a global scale. - providing service, sales, calibration, training, project design and management, and consulting. - providing e a range of courses in cleanroom technology and testing applications. -support for all industries that demand clean air and containment, protecting people, products and critical infrastructure which includes pharmaceutical/ medical/healthcare, nuclear, military, emergency services, human/veterinary science, aerospace, automotive, industrial engineering.

Tim is Director and Trainer of Academy for Cleanroom Testing Ltd since 2011. ACT has a portfolio of theory and practical based courses in all aspects of Cleanroom Testing to help those involved in the qualification appreciate the Standards, the instruments and the test methods.

Tim is an enthusiastic leader of technical and manufacturing business with experience in Operations, Engineering, Quality and have spent most of my career in the clean air and containment industry. I focus on good leadership and change. Tim coordinator of the UK CTCB-I courses.

Kevin Beauchamp. Kevin has 21 years experience working in the contamination control and cleanroom industry. He joined the industry in 1986 as a clean air test and certification engineer for PED Ltd [Tanshire holding now Bovis] and undertook the validation and testing throughout the world. Kevin has extensive experience in the testing of contamination control facilities and clean air equipment [cleanrooms, safety cabinets, fume extraction and pharmaceutical isolators]. Also offering expertise in cGMP validation support including design review, protocol generation (FAT, DQ, IQ, OQ PQ), delivery and execution. In June 1994 he joined Crowthorne Hi-Tec Services as general manager with a team of 18 engineers. In 2004 Kevin was part of the MBO team of Crowthorne Hi-Tec Services.

Delegates from Sweden (R3 Nordic)

Bengt Ljungqvist. Dr Bengt Ljungqvist was between 1986 and 2011 Professor of Safety Ventilation at KTH, Stockholm and is since 2011 Professor Emeritus at KTH. He was in 2012 appointed Affiliated Professor at Chalmers University of Technology in Göteborg. He is Honorary member of PDA and R³-Nordic. He was in 2006 appointed by the PDA "Outstanding PDA Scientist" in Contamination Control. He has over the years published more than 200 scientific papers.

Since 2005 he has together with Berit Reinmüller been responsible for the CTCB-I certification in the Nordic countries.

Berit Reinmüller. Dr Berit Reinmüller received her PhD in 2011. She has spent 30 years in the pharmaceutical manufacturing field specializing in the area of contamination control and environmental monitoring. In 2010 she was appointed Assoc. Professor at Chalmers University of Technology in Göteborg. She is Honorary member of PDA and R3-Nordic. She was in 2006 appointed by the PDA "Outstanding PDA Scientist" in Contamination Control. She has over the years published about 90 scientific papers.

Since 2005 he has together with Bengt Ljungqvist been responsible for the CTCB-I certification in the Nordic countries.

Lars Jansson. Lars is a validation engineer at MyAir Test and Validation in Sweden AB and has over 25 years' experience in cleanroom business.

Lars is chairman in Swedish technical committee 108, Cleanroom Technology and Swedish expert in ISO TC 209, WG1, WG3, and WG4. He is also chairman in the Swedish technical committee 527, Microbiological cleanliness in the operating room. Certified by CTCB at professional level since 2005.

Lars Ekberg. Lars is associate professor at Chalmers University and sector manager of Real Estate Companies and Industry.

Delegates from The Netherlands (VCCN)

Koos Agricola. Koos is an Applied Physicist at Research and Development of Océ Technologies BV since 1986. Océ Technologies BV develops and produces printing systems for the professional market. For the production of various materials and components cleanrooms are used. He has designed and operated cleanrooms and cleanroom process equipment. He also investigated the effectiveness of various cleaning and contamination control methods. He is the secretary of the VCCN and chairman of the VCCN Education Board and teaches the VCCN courses 'Cleanroom behaviour', 'Cleanroom design and construction' and 'Cleanroom cleaning (basic and advanced)'.

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various congresses he has a broad experience. He has a CTCB Professional certificate and CTCB Cleanroom Technology certificate.

Andre van Tongeren. André is operation manager at Aerodynamic. He has 7 year experience as a cleanroom testing specialist. He is educated in business administration en electro technical building services. He has a CTCB Professional certificate.

Contact person for The Netherlands CTCB-I courses is the VCCN Education Coordinator Jos Bijman.

Delegates from Brazil (SBCC) in development

Miguel Ferreirós, Engenheiro

Technical experts

Kevin Beauchamp. Kevin has 21 years experience working in the contamination control and cleanroom industry. He joined the industry in 1986 as a clean air test and certification engineer for PED Ltd [Tanshire holding now Bovis] and undertook the validation and testing throughout the world. Kevin has extensive experience in the testing of contamination control facilities and clean air equipment [cleanrooms, safety cabinets, fume extraction and pharmaceutical isolators]. Also offering expertise in cGMP validation support including design review, protocol generation (FAT, DQ, IQ, OQ PQ), delivery and execution. In June 1994 he joined Crowthorne Hi-Tec Services as general manager with a team of 18 engineers. In 2004 Kevin was part of the MBO team of Crowthorne Hi-Tec Services.

Tim Triggs: Tim is General Manager of UK operations, Director of EMEA of Air Technique International since 2016. A summary of ATI, and where DOP Solutions and the Academy for Cleanroom Testing fit: -supply of instrumentation and monitoring solutions for testing High Efficiency air filters or monitoring critical environments, on a global scale. - providing service, sales, calibration, training, project design and management, and consulting. - providing e a range of courses in cleanroom technology and testing applications. -support for all industries that demand clean air and containment, protecting people, products and critical infrastructure which includes pharmaceutical/ medical/healthcare, nuclear, military, emergency services, human/veterinary science, aerospace, automotive, industrial engineering.

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Tim is an enthusiastic leader of technical and manufacturing business with experience in Operations, Engineering, Quality and have spent most of my career in the clean air and containment industry. I focus on good leadership and change. Tim coordinator of the UK CTCB-I courses.

Steve Ward. Steve is owner of Validair since 1990 and Director at the Validair Group of companies. Primary role is providing validation consultancy for cleanrooms, contamination control equipment and specialist environments. LBI/30 Cleanroom Technology BSI committee member UK technical expert for ISO/TC209 Working Group 3 (updates to ISO 14644-3).

Ed Brown. Ed graduated with an Honours Degree in Chemistry in 1984, from the University of Salford. In 1985 his career began in the field of Occupational Hygiene, the field in which he still practices. In 1992 he graduated from the University of Newcastle upon Tyne, with a Masters Degree in Occupational Hygiene (with Distinction) and followed that in 1993 with the Diploma of

Professional Competence in Occupational Hygiene. His Occupational Hygiene work took him into many pharmaceutical plants, where his experience and knowledge of cleanrooms and clean air devices was first gained. This knowledge and experience enabled his business (Vega Environmental Consultants Ltd) to expand into the field of cleanroom and clean air device testing, which they still perform today. In 1996, Vega Ltd attained 'Certified Cleanroom Testing Contractor' status with the NEBB (National Environmental Balancing Bureau - USA) and Ed himself is a certified 'Cleanroom Performance Testing Supervisor' with the NEBB.

Lars Jansson. Lars is a validation engineer at MyAir Test and Validation in Sweden AB and has over 25 years' experience in cleanroom business.

Lars is chairman in Swedish technical committee 108, Cleanroom Technology and Swedish expert in ISO TC 209, WG1, WG3, and WG4. He is also chairman in the Swedish technical committee 527, Microbiological cleanliness in the operating room. Certified by CTCB at professional level since 2005.

Lars Ekberg. Lars is Associate Professor in Indoor Climate, Energy Conservation, HVAC design and function and Sector Manager of CIT Energy Management AB at Chalmers University of Technology.

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