



INTERNATIONAL COUNCIL FOR RESEARCH AND INNOVATION IN BUILDING AND CONSTRUCTION

INFORMATION

April 2005

Around the Task Group and Working Commissions

W080 - Prediction of Service Life of Building Materials and Components

Introducing the New Joint Coordinator



Dr. Ivan Cole

During its latest meeting that took place on March 8 2005 in Madrid, Spain, the CIB Programme Committee (PC) appointed Dr. Ivan Cole as the new Joint Coordinator of W080 on Prediction of Service Life of Building Materials and Components. Dr. Cole will, together with Dr. Chevalier (CSTB, France), replace the former Joint Coordinators Prof. Sjöström and Dr. Lacasse. Below follows a short CV of Dr. Cole. Below follows a short CV of Dr. Cole.

Professional Background

Over fifteen years experience and a internationally recognized leader in the field of the life cycle of building materials. Lead major projects in the relation between building design/climate and component life as well as the development of performance based guidance standards and codes for durable buildings. Significant research into effect of climate change and flooding on infrastructure, member of CSIRO impact and adaptation working group. Submitted major reports to Federal government on impact of severe

events and assisted with formulation of climate change inputs to IPCC. Significant contribution to the application of building and material science to the conservation of cultural buildings and collections. Member of international and national committees for research and standards in durable structures. Recent work combines building life, maintenance requirements, total embodied energy with climate and building design. An extensive publication records with over 130 papers as well having been chair and keynote speaker of international organizations and conference in these areas. New work include:

- Developing corrosion resistant coatings from a fundamental understanding of the degradation process
- Advanced IT approach for self constructing computer models for use in intelligent infrastructure
- Effect of severe events and climate change on infrastructure
- Development of network intelligence for prognostics based on intelligent agents
- Development of tailored surface texturing to provide nano/micro arrays

Current Position

General Manager -Research Portfolio Investment - CSIRO CMIT. Over the past year as Deputy Science Director for New Materials and processes of CSIRO, Manufacturing Infrastructure and Technology Dr Cole has provided the strategic direction to this 100 + strong group of scientists.

Previous Positions

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|------------|-----------------------------------------------------------------------------------------------------|
| 1986-1988 | Research Fellow, University of Sheffield, School of Materials |
| 1988-1991 | Section Leader, Centro Sviluppo Materiali (Centre for Materials Development), ILVA, Rome, Italy |
| 1991- 2002 | Team leader Corrosion Science and Surface Design -CSIRO Manufacturing and Infrastructure Technology |

Professional Associations and Committees-International

- 1998/1999 RILEM-Councillor and Australian Delegate
- ISO/TC59/SC15/WG2 Chair
- CIB W106-GIS Systems
- CIB W080-Prediction of Service Life of Building materials and Components
- TG13 - Consequences for Buildings of Climate Variability and Climate Change
- 1996 - present W094-Design for Durability Co-Coordinator
- 1993 to 1994 International Journal - Fatigue & Fracture of Engineering Materials & Structures Guest Editor
- NACE Member, 1992 to present
- European Structural Integrity Society (ESIS) Member, 1988 to 1994
- ESIS Working Group for Guidance Notes on SCC testing Member, 1988 to 1994
- Organizing Committee of Offshore Mechanics and Arctic Engineering Conference (OMAE) Member, 1992
- Organizing Committee of Offshore and Polar Engineering Conference Member, 1991 to present
- International Society of Offshore and Polar Engineers Member, 1988 to 1994
- Institute of Wood Science Associate 1996 to present

Awards and Keynote Addresses

CIB W080-Best paper for 1998 Co-Author
Gordon Conference on Aqueous Corrosion - 1998

1999 - First Asian Pacific Corrosion Control Conference
1999 - Regional Conference on Corrosion Protection and Performance
Tests of Structure and Building Materials
Materials Research 96.
2000 - 2nd Asia Pacific Conference on Building Systems
12th Asian-Pacific Corrosion Control Conference (2001).
NACE 2003 - Research Topical Symposium Modelling and Prediction of Lifetime for Corrodible Structures
52nd Meeting of The International Society of Electrochemistry
BAE Systems Chairmen Award for Innovation Silver Medal - 2002
ITDI (Philippines) - 60 anniversary International Collaboration Medal 2001
KTH - (Sweden) Guest Lecturer and Researcher June 2001 - Nov 2001

Professional Associations and Committees-Australian

Australian Museum's- Research Centre for Materials Conservation and Built Environment.
Member of steering committee, 1997 - present
Victorian Building Science Forum
Committee Member, 1992 to present, Vice Chairman 1996 to present
Institute of Metals and Materials Australia (subsection of Institute of Engineers Australia)
Member, 1991 to present
ASA Committee BD/28 Brick Ties and Accessories Member, 1992 to present
ASA Committee BD/4 Masonry Structures Member 1993 - present
Consortium for Heritage Collections and their Environment Co-founder and steering committee member

Additional Information

If you are interested in joining (or making contribution to) W080, please contact: Dr. Ivan Cole ivan.cole@dbce.csiro.au and Dr. Jean-Luc Chevalier jl.chevalier@cstb.fr
You can find more information on the activities of CIB W080 at www.cibworld.nl
Search under Databases/CIB Commissions.
Click on Commissions and type W080 in the search field.