



GREEN BOOKS SERIES

BREAK-DOWN BY WP

EUROCORR 2024, Paris

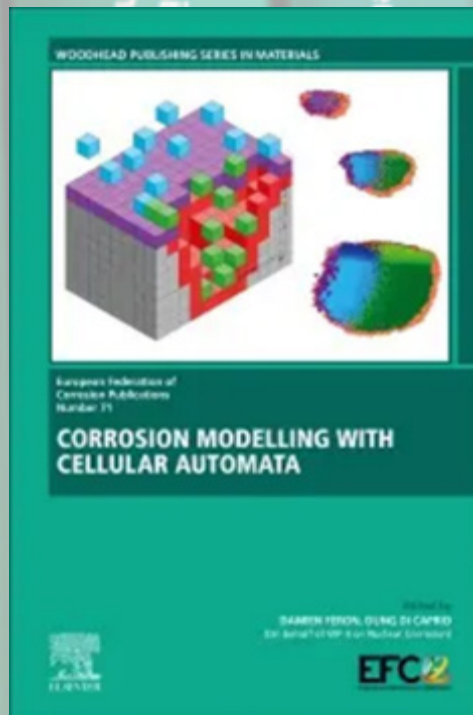
NEW

EFC BOOKS



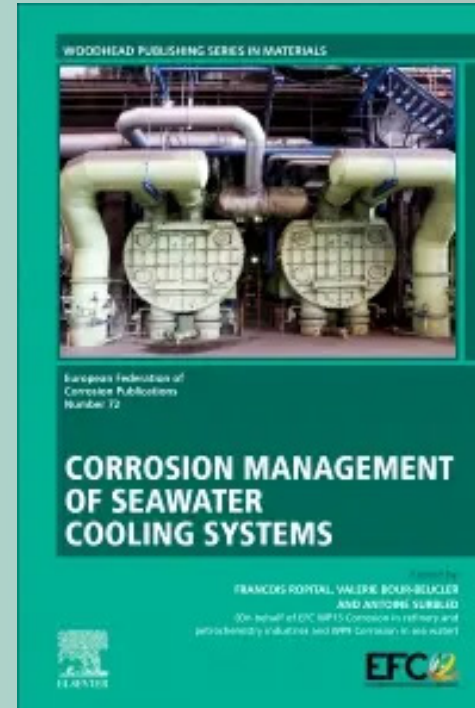
❖ EFC 71

Corrosion Modelling with Cellular Automata



❖ EFC 72

Corrosion Management of Sea Water Cooling Systems

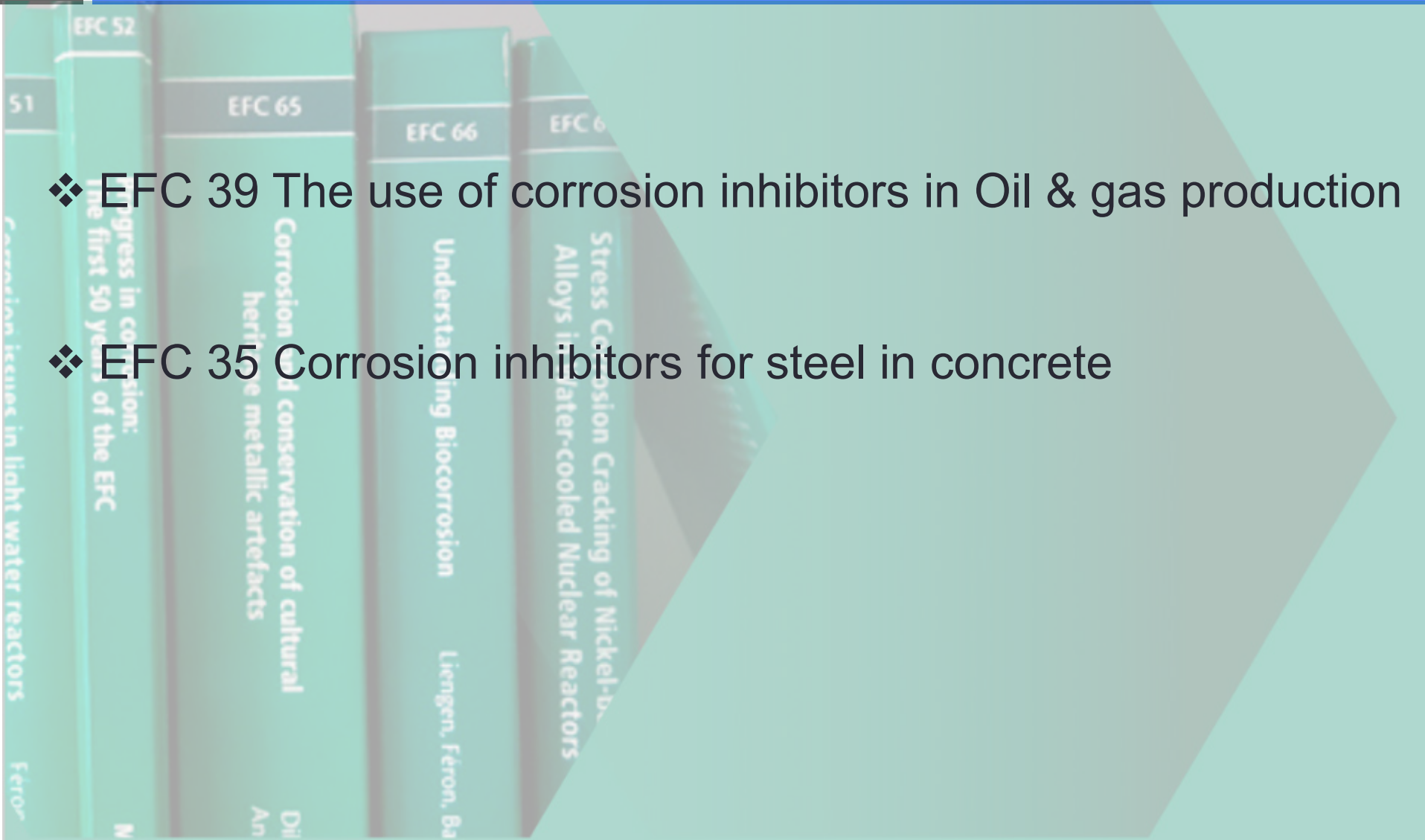


General purpose

- ❖ EFC 52 Progress in corrosion - the first 50 years of the EFC
- ❖ EFC 30 Survey of literature on crevice corrosion (1979-1998)
- ❖ EFC 21 Corrosion - deformation interactions
- ❖ EFC 12 Modification of passive films

WP 1 – associated books

- ❖ EFC 39 The use of corrosion inhibitors in Oil & gas production
- ❖ EFC 35 Corrosion inhibitors for steel in concrete



WP 3 – associated books

- ❖ EFC 57 Protective systems for High temperature applications - from theory to industrial implementation
- ❖ EFC 53 Standardisation of thermal cycling exposure testing
- ❖ EFC 47 Novel approaches to improving high temperature corrosion resistance
- ❖ EFC 34 Lifetime modelling of high temperature corrosion processes: proceedings of an EFC workshop
- ❖ EFC 27 Cyclic oxidation of High temperature materials
- ❖ EFC 14 Guidelines for methods of testing and research in High Temperature corrosion

WP 4 – associated books (1/2)



- ❖ **NEW** EFC 71 Corrosion Modelling with Cellular Automata
- ❖ EFC 69 Nuclear Corrosion: Research, Progress and Challenges
- ❖ EFC 67 Stress Corrosion Cracking of Nickel Based Alloys in Water-Cooled Nuclear Reactors: The Coriou Effect
- ❖ EFC 59 Sulphur-Assisted Corrosion in Nuclear Disposal Systems
- ❖ EFC 56 Corrosion monitoring in nuclear systems

WP 4 – associated books (2/2)



- ❖ EFC 51 Corrosion issues in light water reactors: Stress corrosion cracking
- ❖ EFC 49 Electrochemistry in light water reactors
- ❖ EFC 36 Prediction of long term corrosion behaviour in nuclear waste Systems
- ❖ EFC 7 Corrosion problems related to nuclear waste disposal

WP 7 – associated books

- ❖ EFC 68 Engineering Tools for Corrosion: Design and Diagnosis
- ❖ EFC 6 Corrosion education manual

WP 8 – associated books



- ❖ EFC 45 Local probe techniques for corrosion research
- ❖ EFC 44 The use of electrochemical scanning tunneling microscopy (EC-STM) in corrosion analysis
- ❖ EFC 37 Test methods for assessing the susceptibility of prestressing steels to hydrogen induced stress corrosion cracking
- ❖ EFC 28 Electrochemical approach to selected corrosion and Corrosion control studies
- ❖ EFC 14 Guidelines for methods of testing and research in High Temperature corrosion
- ❖ EFC 4 Guidelines for electrochemical corrosion measurements

WP 9 – associated books (1/2)



- ❖ EFC 63 The Corrosion performance of metals for the marine environment : A basic guide
- ❖ EFC 60 Methodology of Crevice corrosion testing for stainless steels in natural and treated seawaters
- ❖ EFC 50 Corrosion behaviour and protection of copper and aluminium alloys in seawater

WP 9 – associated books (2/2)



- ❖ EFC 33 Marine corrosion of stainless steel
- ❖ EFC 19 European workshop on seawater corrosion of stainless steel mechanisms & experiences
- ❖ EFC 10 Marine corrosion of stainless steels : chlorination and microbial aspects
- ❖ EFC 5 Illustrated case histories of marine corrosion

WP 10 – associated books

- ❖ EFC 66 Understanding Biocorrosion: Fundamentals and Applications
- ❖ EFC 29 Microbial corrosion
- ❖ EFC 22 Aspects of microbially induced corrosion
- ❖ EFC 9 Microbiological degradation of materials and methods of protection

WP 11 – associated books



- ❖ EFC 38 Corrosion of reinforcement in concrete
- ❖ EFC 35 Corrosion inhibitors for steel in concrete
- ❖ EFC 31 Corrosion of reinforcement in concrete
- ❖ EFC 25 Corrosion of reinforcement in concrete: Monitoring, prevention and rehabilitation
- ❖ EFC 24 Electrochemical rehabilitation methods for reinforced concrete structures

WP 13 – associated books (1/2)



- ❖ EFC 64 recommended practice for corrosion management of pipelines in oil and gas production and transportation
- ❖ EFC 55 Corrosion Under Insulation (CUI) Guidelines
- ❖ EFC 39 The use of corrosion inhibitors in Oil & gas production
- ❖ EFC 32 Working Party report on the life cycle costing of corrosion in the Oil & gas industry : a guideline

WP 13 – associated books (2/2)



- ❖ EFC 26 Advances in corrosion control and materials in oil and gas production
- ❖ EFC 17 Corrosion resistant alloys for oil & gas production: guidance on general requirements and test methods H₂S service
- ❖ EFC 16 Guidelines on materials requirements for carbon and low alloy steels for H₂S containing environments in oil & gas production

WP 14 – associated books



- ❖ EFC 58 Self-healing properties of New surface treatments
- ❖ EFC 57 Protective systems for High temperature applications - from theory to industrial implementation
- ❖ EFC 54 Innovative pre-treatment techniques to prevent corrosion of metallic surfaces
- ❖ EFC 20 organic and inorganic coatings for corrosion prevention - research & experience

WP 15 – associated books



- ❖ **NEW** EFC 72 Corrosion Management of Sea Water Cooling Systems
- ❖ EFC 55 Corrosion Under Insulation (CUI) Guidelines
- ❖ EFC 46 Amine unit corrosion in refineries
- ❖ EFC 42 Corrosion in refineries
- ❖ EFC 41 corrosion by carbon and nitrogen – metal dusting, carburisation and nitridation
- ❖ EFC 40 Control of corrosion in cooling waters

WP 18 – associated books



- ❖ EFC 70 Mechanical and Electro-chemical Interactions under Tribocorrosion: From Measurements to Modelling for Building a Relevant Monitoring Approach
- ❖ EFC 62 Testing Tribocorrosion of Passivating Materials Supporting Research and Industrial Innovation

WP 21 – associated books

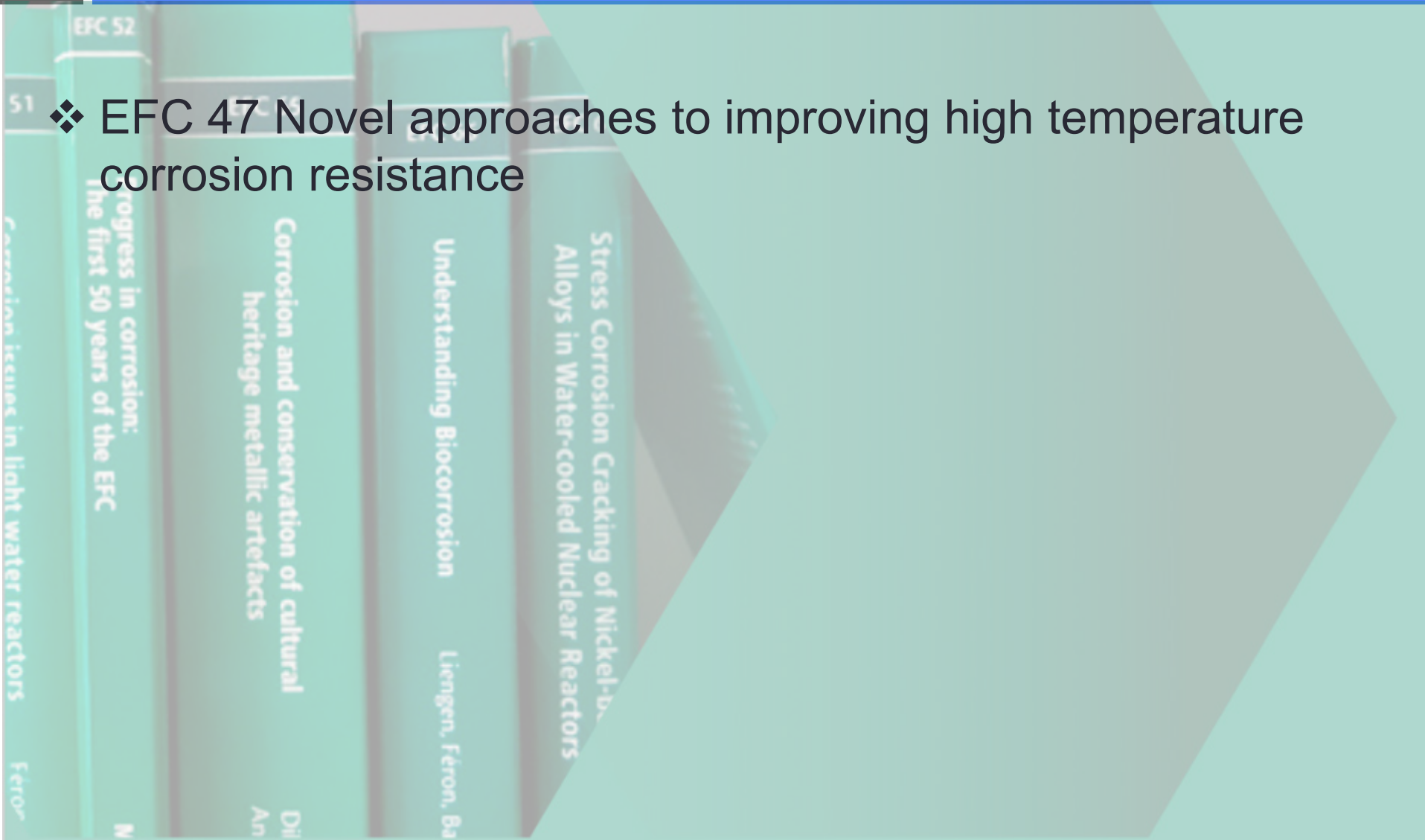
- ❖ EFC 65 Corrosion and conservation of cultural heritage metallic artefacts
- ❖ EFC 48 Corrosion of metallic heritage artefacts



WP 22 – associated book

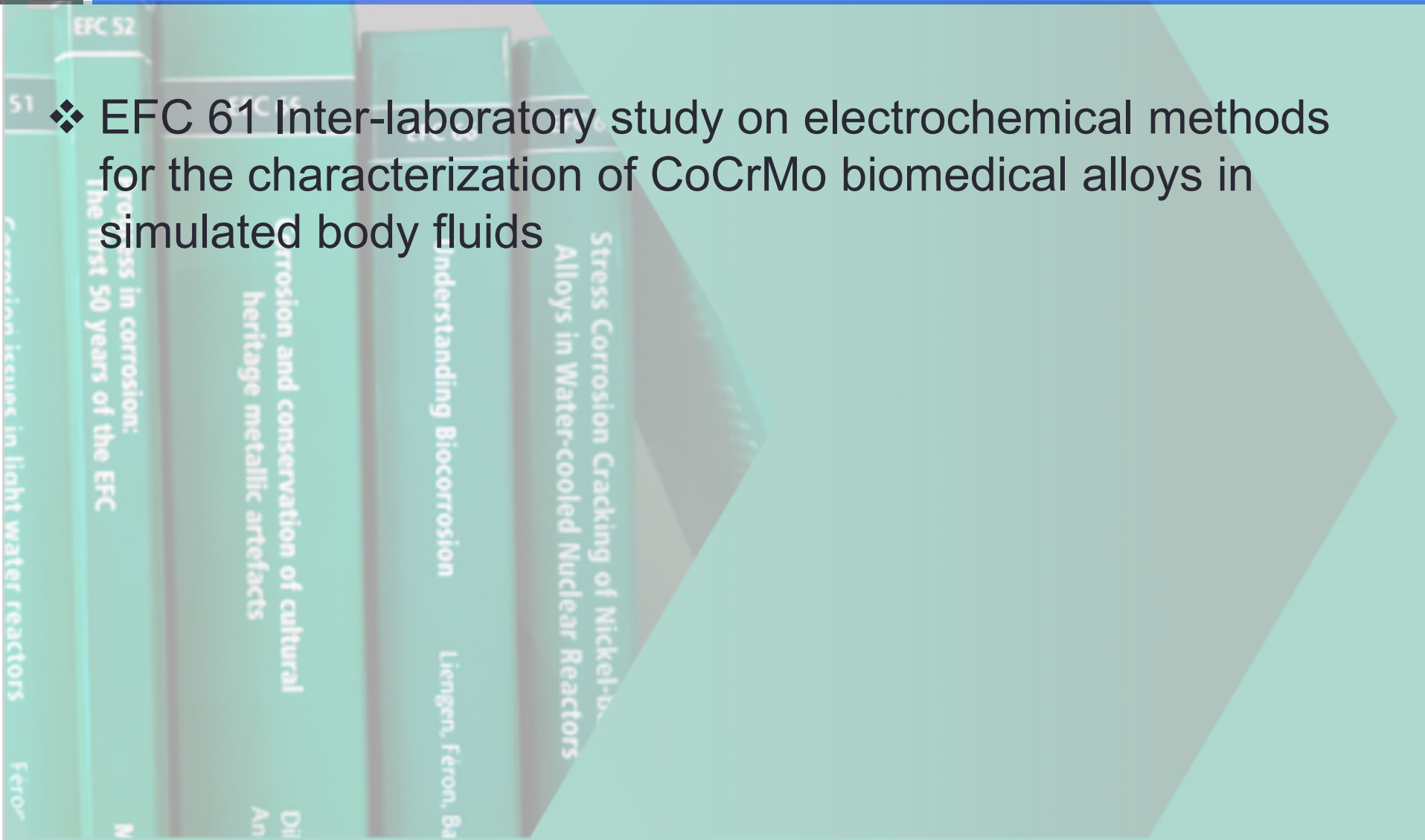


- ❖ EFC 47 Novel approaches to improving high temperature corrosion resistance



TF 2 – associated book

- ❖ EFC 61 Inter-laboratory study on electrochemical methods for the characterization of CoCrMo biomedical alloys in simulated body fluids



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