

WORKSHOP NITROTEC

4th February 2026 | Department of Chemistry University of Coimbra

Raw Material Criticality in Cellulose-Based Energetic Materials

9h Welcome and Opening Remarks

Prof. Artur Valente, Director of Chemistry Department of the University of Coimbra
Prof. João Ramalho, Vice -Rector of the University of Coimbra for Research and Science
Prof. Dora Pontinha, SeaPower (Workshop Co-Chair)
Prof. José Baranda Ribeiro, ADAI - University of Coimbra (Workshop Co-Chair)

9h10 Presentation of the NITROTEC Consortium

Prof. Luis Simões da Silva
President of SeaPower

9h30 Energetic Materials for Formulation – The Importance of access to quality ingredients

Prof. Adam Cumming, School of Chemistry
University of Edinburgh

10h10 EDA Collaborations on Critical Components

Dr. Stefan Ek, Deputy Research Director
FOI - Swedish Defence Research Agency

10:50 Coffee Break

11h20 Redefining the Crystal Structure of Nitrocellulose

Prof. Carole Morrison, School of Chemistry
University of Edinburgh

12h Round Table

Prof. Teresa Pinho e Melo, Univeristy of Coimbra
Cap. Te. João Graça Motta, Navy Explosive Materials Laboratory
Prof. Adam Cumming, University of Edinburgh
Dr. Stefan Ek, FOI - Swedish Defence Research Agency
Prof. Carole Morrison, University of Edinburgh
Prof. José Baranda Ribeiro, ADAI-University of Coimbra

12:30 Lunch

14h Smart Energetics: Tailoring Polymers Beyond Nitrocellulose

Prof. Colin Pulham, School of Chemistry
University of Edinburgh

14h40 Wood based Cellulose for Cellulose Derivatives – Accessibility and Reactivity

Prof. Monica Ek, Wood Science Centre
KTH - Royal Institute of Technology, Stockholm

15:20 Coffee Break

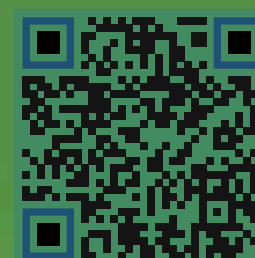
15h50 Same Polymer, Different behavior: Nitrocellulose from Wood and Cotton

Dr. Amy Carlström, Head of Nitrocellulose Development
Verkan AB, Sweden

16h30 Round Table 2

Eng. Filipe Duarte, OptimalDefence
Eng. Pedro Costa Branco, Raiz – The NavigatorCompany
Prof. Colin Pulham, University of Edinburgh
Prof. Monica Ek, KTH - Royal Institute of Technology, Stockholm
Dr. Amy Carlström, Verkan AB, Sweden
Prof. Dora Pontinha, SeaPower

17h Closing Remarks



Register here!