

European Steel Skills Alliance (ESSA) A Sectoral Blueprint

Final Conference

“Steel as Forerunner for the Triple Challenge - a Green, Digital and Social transition.

Shaping the Future of the European Steel Industry”

in Cooperation with the European Steel Technology Platform (ESTEP)

Hybrid: Duisburg, thyssenkrupp Steel Europe Education Centre and ZOOM

ESSA is an **EU Erasmus+ Program** funded project in Cooperation with the European Steel Technology Platform (ESTEP) and it has been included under the umbrella of the **European Year of Skills**.

With other 40 full and associated partners, ESSA addresses future skills needs in the light of the digital transformation in the European steel industry.

The aim of the conference is the dissemination and future implementation of the project results and its sustainability beyond the natural end of the project activities.

For further questions, please contact

Antonius Schröder, TU Dortmund University, antonius.schroeder@tu-dortmund.de

More information on ESSA: <https://www.estep.eu/essa/>

ESSA website: <https://www.estep.eu/essa>

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Sectoral Blueprint ESSA

Tackling the European Steel Sector's Triple Challenge: Digital, Green, and Social

in Cooperation with the European Steel Technology Platforms (ESTEP)
Hybrid/Duisburg, thyssenkrupp Steel Europe Education Centre and ZOOM
11th of May 2023 from 09:00 am to 5:30 pm, CEST
Moderator: Scott Chubs, wordsteel

by clicking on the speakers
you are directed to their bios

by clicking on the headlines
you will be directed to the
available presentations

09,00 - 09,20 **Welcome and Agenda**
Antonius Schröder, *Project Coordinator ESSA, TU Dortmund University*
Klaus Peters, *Secretary General ESTEP*

09,20 - 09,35 **Statement from thyssenkrupp Steel Europe AG**
Veit Echterhoff, *Head of Education Centre thyssenkrupp Steel Europe*

09,35 - 09,50 **Welcome Notes European Commission: European Year of Skills 2023**
Alessandra Colli, *DG RTD*
Nikos Pantalos, *DG GROW*

ESSA - On the road to clean, green and smart steelmaking and its impact on future skills and high-value Jobs

09,50 - 10,30 **ESSA Blueprint in a Nutshell - Tools and Measures**

- **Overview of the Project - Blueprint Outline**, Antonius Schröder, *TU Dortmund*
- **steelHub: Online Skills Ecosystem - Pilot Training Course**, Jorge Muract, *wordsteel*
- **The European Community of Practice of Steel Regions (ECoP RTS)**, Antonius Schröder, *TU Dortmund*

10,30 - 11,00 **Panel: Future Skills - Other Findings and Perspectives**

- **Clean Steel Partnership**, Klaus Peters, *ESTEP*
- **From BEYOND4.0 to BRIDGES 5.0 / Industry 5.0**, Michael Kohlgrüber, *TU Dortmund University*
- **P4Planet / SPIRE-SAIS**, Angels Orduna, *A.SPIRE*

11,00 - 11,20 **Coffee break**

11,20 - 11,30 **Implementation and Rollout of the European Blueprint: How the European Steel Skills Alliance will move on!**
Antonius Schröder, *TU Dortmund University*

11,30 - 11,50 **ESSA Policy recommendations**
Andrea Tropeoli, *RINA*
Simona Pace, *RINA*

11,50 - 13,00 **Step into Action: Shaping the Future Steel Transformation together**

Moderator: Miikka Nieminen, *EUROFER*

Felix Rohn, *DG Empl*
Angels Orduna, *A.SPIRE*
Axel Eggert, *EUROFER*
Klaus Peters, *ESTEP*

Elspeth Hathaway, *industriALL*
Martin Kunkel, *CIELFFA*

13,00 - 14,00 **Lunch break**

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14,00 - 15,15 **Skills and Jobs in the Future Steel Industry: Immediate answers to new skills demand (Company show cases)**

Moderator: Carolin Eitner, thyssenkrupp Steel Europe

- **New Qualification for Hydrogen based Ateelmaking**, Dr. Veit Echterhoff, *head of Vocational Training Center, tkSE*
- **Implementing steelHub Training in the Company's Training Pathways**, Jorge Muract, *wordsteel*
- **Green Skills for the Steel Industry**, Alejandro Sanchez Cuenca, *Arcelormittal* / José Ignacio Alonso, *Celsa Group*
- **Simulation and Digital Twin Technology in the Steel Industry: From Concept to Operational Benefits**, Costanzo Pietrosanti, *Danieli*

15,15 - 15,30 **Coffee break**

15,30 - 16,45 **European Community of Practice: National-Regional Strategies for Recruitment and Talent Management**

Moderator: Dean Stroud / Martin Weinell, Cardiff University

- **Image and Recruiting in the European steel sector: Results from the ESSA Rollout**, Adrian Götting, *TUDO, Germany*
- **Germany: How to change narratives in a transformation process. Current recruitment campaigns and Employer branding at tkse**, Christian Ott, *tkSE, Germany*
- **Poland: Ukrainian Refugees integration**, Wojciech Sculz, *IMZ, Poland*
- **Spain: Attracting Women**, Gema Palazon, *UNESID, Spain*
- **Italy: Bridging Educational and Vocational systems**, Teresa Branca, Valentina Colla, *Scuola Superiore Sant'Anna, Italy*

16,45 - 17,15 **ESSA Stays alive: Large Scale Partnership Energy Intensive Industries under the Pact for Skills**, Antonius Schröder, *TU Dortmund University*

17,15 - 17,30 **End of Conference**

Speakers BIOs



Jose Ignacio **ALONSO OSAMBELA**

Celsa Steel Service Nordic Head of HR.
CELSA NORDIC GROUP

Jose Ignacio is an experienced Global Human Resources Manager with a demonstrated history of working in multinational companies.

He has always been working in retail or manufacturing environments, very close to the business. He has successful experiences in Labour Relations, Companies integrations and cultural change and Human resources processes design and development.

He has a background in the Retail (Auchan) and Fast Moving Consumers Good industry. (NABISCO, United Biscuits, LU Biscuits, Kraft Foods and MONDELEZ INTERNATIONAL)

He joined CELSA Group in 2014 as Head of HR for the Scrap and Wire Works Divisions at CELSA Barcelona Group.

In 2017, he moved to Corporate POD, Global Support & Services, becoming Head of Talent for CELSA Group.

From 2021 is the CSS Nordic Head of HR CELSA NORDIC GROUP. He is currently living with his family in Stockholm.

Jose Ignacio was born in La Rioja, Spain. He holds a Laws Degree by the University of Zaragoza and a Master in Business Administration by the University of Navarra (MBA IESE).

Public Profile

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Teresa Annunziata **BRANCA**

Scuola Superiore Sant'Anna
Telecommunications, Computer Engineering, and Photonics Institute
(TeCIP)

Teresa Annunziata Branca is a research assistant at Scuola Superiore Sant'Anna (SSSA) in Pisa, Italy, and a member of the research team named Information and Communication Technologies for Complex Industrial Systems and Processes (ICT-COISP) of the TeCIP Institute of SSSA.

Her expertise is in the fields of industrial sustainability, particularly focused on the manufacturing and processing industry. Her research activity mainly concerns energy and resource efficiency in the steel sector, including by-products characterization treatment and valorisation. She has been involved in several European projects co-financed by the Research Fund for Coal and Steel (RFCS).

Currently, she is involved in two large scale ERASMUS+ projects: European Steel Skills Agenda (ESSA) and Skills Alliance for Industrial Symbiosis: A Cross-sectoral Blueprint for a Sustainable Process Industry (SPIRE-SAIS). She is a member of the Focus Group People within the European Steel Technology Platform (ESTEP). She is author and co-author of more than 50 papers published in international journals and conferences.

Public Profile

<https://www.santannapisa.it/en/teresa-annunziata-branca>

<https://www.researchgate.net/profile/Teresa-Branca>



Scott **CHUBBS**

WorldSteel Association

Scott is Deputy Director General of World Steel Association. He is Secretary to the Education and Training Committee and has organisational responsibilities for membership, Board of Members meetings, the annual General Assembly, and efficiency improvements. Scott joined worldsteel in 2001, with previous roles including leadership roles in sustainability, steel construction marketing, and life cycle assessment (LCA).

Mr. Chubbs started his career in metallurgical engineering and environmental management at the Canadian steel company Dofasco Inc., now ArcelorMittal Dofasco. Mr. Chubbs was a Fellow at American Iron and Steel Institute (AISI) in 1995 and charged with leading AISI's LCA programme.

Mr. Chubbs holds a Bachelor of Science degree in Metallurgical Engineering from the University of Alberta and a Master of Business Administration degree from McMaster University.





Valentina COLLA

Scuola Superiore Sant'Anna
Telecommunications, Computer Engineering, and Photonics Institute
(TeCIP)

Valentina Colla Holds an MSc in Engineering and a PhD in Industrial and Information Engineering. She started her research activity in the steel field at Scuola Superiore Sant'Anna (SSSA) in Pisa, Italy, in 1996 working on AI-supported material science and technology. From 2000 until 2008 she was a researcher at SSSA, where she established a research team working on applications of advanced digital technologies in process and manufacturing industry, with a focus on the steel sector.

Presently, she is the Assistant Professor of Metallurgy and responsible for the team named Information and Communication Technologies for Complex Industrial Systems and Processes (ICT-COISP) of the TeCIP Institute of SSSA. Her research activity concerns simulation, modelling, management, and control of industrial processes via traditional and Artificial Intelligence (AI)-based techniques. She holds a considerable experience on development of investigations and solutions to improve energy and resource efficiency in the steel sector, including by-products characterization treatment and valorisation. She participated in 70 EU-funded projects (11 as project coordinator) and many projects funded by private companies. She is an active member of the European Steel Technology Platform (ESTEP), where She is a member of the focus groups entitled "Smart Factory" and "Circular Economy". She is co-author of about 400 papers published in international journals and conferences.

Public Profile

<https://www.santannapisa.it/en/valentina-colla>

<https://www.researchgate.net/profile/Valentina-Colla>



Alessandra COLLI

European Commission DG RTD

Dr. Alessandra Colli is Policy Officer in the European Commission's DG for Research & Innovation, where she works for the research programmes for steel. She worked for 11 years at the U.S. Department of Energy's Brookhaven National Laboratory, where she ultimately was responsible for the Additive Manufacturing Strategy development and coordination. Her background has been formed between electric engineering and risk & reliability analysis of energy processes and systems. She obtained her Ph.D. with Delft University of Technology in 2009, on risk analysis of energy systems.

Public Profile

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Alex EGGERT

EUROFER

Axel Eggert is the Director General of the European Steel Association (EUROFER), a position he has held since 2014. He initially joined the association in 2007 as Director of Public Affairs and Communications.

Mr Eggert has over twenty years of experience in EU affairs, having worked for eight years in the European Parliament prior to his role at EUROFER. In addition to his EUROFER leadership, Mr Eggert is also Vice-President and Member of the Board of the European Steel Technology Platform (ESTEP).

A German national, Mr Eggert holds Master's degree in Modern History, Economics and Law from the University of Darmstadt and the State University of New York at Buffalo.



Carolin EITNER

thyssenkrupp Steel Europe AG
People & Performance Strategy / Labour Management

Carolin is an HR Senior Expert at the HRM department at thyssenkrupp Steel Europe AG.

With more than 12 years of work experience in the HR field, she focusses especially on demographic change and diversity management in all its facets. She deals intensively with trends, good practices and innovative solutions, always with the aim of taking the organization along on the path of diversity development. Carolin studied Social Sciences and completed her PhD at Bochum University. She also worked as a researcher at the Institute of Gerontology at TU Dortmund University



Adrian GÖTTING

TU Dortmund University - Social Research Centre

Since 2021, Adrian Götting works as a researcher at the Social Research Centre of TU Dortmund University. His work mainly focuses on analysing the social impact of technologies and correlated upskilling and training requirements. Currently, he is involved in different EU-funded projects (such as e.g. ESSA and SPIRE-SAIS, PURESCRAP) that examine changes in skill demands associated with the digital and green transformation of industrial sectors.



Elspeth HATHAWAY

industriAll

Elspeth Hathaway is the senior policy advisor responsible for steel and basic metals at industriAll European Trade Union.

IndustriAll Europe represents industrial and manufacturing workers across Europe and coordinates various European Social Dialogue Committees, including for the steel sector with EUROFER and the European Commission.

Elspeth studied Psychology at the University of Glasgow before undertaking various training, co-ordination and management roles in both public health and education. She has worked as a policy advisor, and a communications officer, for a British politician in the UK and was Head of Office for the leader of the UK Labour Party in the European Parliament covering the Employment and Social Affairs Committee and Trade Union liaison.



Michael KOHLGRÜBER

Social Research Centre (sfs)

Michael Kohlgrüber is senior researcher at Social Research Centre (sfs). His current research is focused on the integration of social and technological innovation in industrial companies. In the context of Industry4.0 and 5.0, he is developing and implementing social requirements related to the design of sociotechnical systems (technology-organization-people/skills), i.e., implementing social innovation processes, getting users and stakeholders of new technologies involved in defining social requirements. Among these requirements, he is analysing skill needs for the digital transformation and decarbonisation of industries and how they can be provided. Beside skills, he is doing research on other socio-economic aspects of the circular economy, such as creating awareness of relevant stakeholders, enabling collaboration between companies and stakeholders, considering transaction costs of establishing these collaborations. He is currently working on the projects

- Blueprint “New Skills Agenda Steel”: Industry-driven sustainable European Steel Skills Agenda and Strategy (ESSA)
- PURESCRAP - Purity improvement of scrap metal
- BEYOND 4.0: Inclusive Futures for Europe BEYOND the impacts of Industrie 4.0 and Digital Disruption
- BRIDGES 5.0: Bridging Risks to an Inclusive Digital and Green future by Enhancing workforce Skills for Industry 5.0
- greenSME - Driving manufacturing SME transformation towards green, digital and social sustainability



Martin KUNKEL

CIELFFA

Attorney Martin Kunkel has been Managing Director of the Fachvereinigung Kaltwalzwerke e.V. (FVK), the German cold rolling association, and of CIELFFA, its European counterpart, since 2016. In this function, he represents the interests of the predominantly medium-sized cold rolling industry in relation to politics and in global competition.

In addition, Mr. Kunkel is managing director of the European Cold Rolled Section Association (ECRA). He advocates the interests of cold rolled section producers, supports the industrial and medium-sized business policy work of the umbrella associations and coordinates community research projects with university institutions.

Moreover, Mr. Kunkel is chairman of the branch organisation STAHL of the REFA Bundesverband eV. The aim of this organisation is to provide well-trained employees to companies in the steel industry and steel-related processing industries through regular courses.

Mr. Kunkel has more than 30 years of experience in the steel industry, initially as head of the "Labor and Social Policy" department of the German Steel Federation (Wirtschaftsvereinigung Stahl) in Duesseldorf and later as deputy head of its Policy Division.



Jorge MURACT

Jorge Muract has over 20 years of experience in the field of people development into universities, where he was associated professor and researcher, as well as in the steel industry as a subject matter expert in finishing line. Jorge is known for delivering world-class training, designing and implementing development programs, as well as introducing innovative tools and solutions to the industry and universities.

Jorge is steeluniversity Director at World Steel Association. Under Jorge's leadership, steeluniversity has grown into a recognized leader in providing high-quality e-learning and development programs that serve the needs of the steel sector and the value change globally. His commitment to excellence, coupled with his deep understanding of industry requirements, has helped to establish steeluniversity as a key contributor to support growth and development of the steel industry and the value chain.

Jorge passionate about collaborative work and its potential to create deeper changes in the way people relate, learn, and apply knowledge to create a sustainable ecosystem to live. Therefore, Jorge is an active member of European Steel Skills Agenda (ESSA) and Skills Alliance for Industrial Symbiosis (SPIRE-SAIS) to identify future skills need, the impact of technology in the workers and develop a collaborative online training ecosystem to upskill workers and students.





Miikka NIEMINEN

EUROFER

Miikka Nieminen works as a Senior Manager, Public Affairs for EUROFER, the European Steel Association, since 2015. In addition to following the EU policies such as climate and environment, he also coordinates the Social Affairs Committee at EUROFER and the Sectoral Social Dialogue Committee on Steel together with industriAll. He is also EUROFER's contact person for the ESSA project.

Previous to EUROFER, Miikka worked 10 years as a political adviser to a Finnish Member of the European Parliament and before that as a consultant at Nokia in Finland. He holds a Bachelor of Business Administration degree from the University of Lincolnshire & Humberside.



Angels ORDUÑA

A.SPIRE

Àngels Orduña is a seasoned EU and international collaboration leader with proven track record championing success in technology and business development through multi-partner, multi-country and multidisciplinary collaboration.

With an academic background in International Relations, she has managed and led a number of RDI projects in the EU and Canada in technology areas related to value chain productions and enabling technologies such as ICT, energy, renewables, environment, advanced materials or manufacturing. She has shown great ability to translate technological concepts to market opportunities and to link partners' commitment through a win-win perspective. She now runs the Association A.SPIRE, representing the private side in the Processes4Planet Public Private Partnership (and previously SPIRE Partnership) in the framework of Horizon Europe.



Christian OTT

thyssenkrupp Steel Europe AG
Head of HR Business Partner Production Duisburg

Christian Ott born 1986 in Duisburg, Germany is senior HR Business Partner and Teamleader for the whole steel production (Upstream and Downstream) in Duisburg responsible for more than 6500 employees with his 17 person HR Business Partner Team.

His focus is on HR Strategy, People Development and reskilling of performance impaired employees. He has worked in three different Locations for thyssenkrupp and has his roots in operational HR. He studied business Psychology (M.Sc.) in Düsseldorf and Economics in Duisburg. (B.A.).





Simona PACE

RINA Consulting - Centro Sviluppo Materiali S.p.A

Simona Pace is member of the Directorate of Funded Research & Innovation at RINA Consulting - Centro Sviluppo Materiali S.p.A.

She gained her PhD in 2015 at Imperial College London in Material Science and Engineering and worked in several research laboratories in Europe and UK focusing on developing new advanced materials for breakthrough technologies, resulting in about 20 peer-reviewed publications and 300 citations.

With 10-year experience in material research and development, she now focuses on building industry relations and on European funding programs & opportunities, mainly related to circular economy and EII decarbonization strategies.

Public Profile

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<https://scholar.google.com/citations?user=QWSg2ccAAAAJ&hl=en&oi=ao>



Gema PALAZÓN FRADE

UNESID

Degree in Administration and Business Management, Business Management specialization, from the University of Alcalá de Henares; Master in HR and Senior Technician in Occupational Risk Prevention in three specialties (Security, Hygiene and Ergonomics and Psychosociology).

From 2004, she is in charge of labour area in the Spanish Steel Association (UNESID), as Director of Organization, Human Resources and Quality, representing and defending steel sector interests in multiple issues, among them, Prevention of Occupational Risks.

She is Secretary of UNESID Human Resources & Prevention of Occupational Risks Committees, being in charge of Professional Training in UNESID, so as Responsible of Gender Equality and diversity leading the ambitious and pioneering project #MujeresDeAcero #WomenOfSteel focus on attract female talent to steel industry and promoting women in decision-making positions.

She also participates in a number of national decision forums as a speaker; in several technical commissions of CEOE (The Spanish Confederation of Business Organizations); Spanish Representative in WorldSteel Prevention of Occupational Risks Committee, so as Employers Representative across Eurofer of the European Steel Social Dialogue from UE.

Public Profile

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Nikos PANTALOS

European Commission DG Grow

Nikos Pantalos has more than twenty years of experience on leading EU policy development in industrial innovation, green transition, industrial clusters and the Next Generation EU. Nikos currently works to empower energy transition and decarbonisation of energy intensive industries through electrification and clean technologies. Other policy areas include low carbon hydrogen and skills for industry. After his MS and PhD studies on Signals and Automatic Control Theory, Nikos has spent several years working in the private sector in the telecom industry.



Klaus PETERS

ESTEP

Dr. Klaus Peters qualified as Doctor of Engineering in 1993 and as state doctorate (Habilitation) in 1998 (RWTHAachen), started his industrial career with thyssenkrupp Steel Europe (tkSE). His senior experiences include production, sales, quality and R&D both on national and international level.

From 2011, Dr. Peters joined several working groups and committees of the European Steel Technology Platform (ESTEP) and was in charge of international research projects and European funding of tk SE. He became in July 2015 Secretary General of ESTEP.

Amongst others, he is member of the Steel Advisory Group (SAG) of the Research Fund for Coal and Steel (RFCS) and Board member of the public-private partnership Processes4Planet. He is the Executive Director of the Horizon Europe Clean Steel Partnership. In 2021, ESTEP was again appointed as member of the High-Level Group on Energy Intensive Industries.

In the recent past, two major projects addressing the decarbonization of the EU steel sector were accomplished with strong involvement and contribution from ESTEP:

LowCarbonFuture and Green Steel for Europe.



Costanzo PIETROSANTI

Danieli Automation S.p.A.

Senior Consultant and Chairman of the ESTEP Smart Factory Focus Group

Costanzo Pietrosanti was born the 11th of April, 1953 in Italy and currently is senior consultant of the R&D DANIELI Automation S.p.A of the DANIELI Group. He also is the representative of the company in the European Steel Technology Platform ESTEP running the position of Chairman of the Smart Factory Focus Group of the ESTEP since 2018 as Senior Researcher since its foundation as I2M Working Group in 2007.

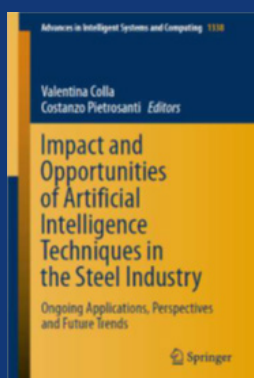
He graduated cum Laude in Mechanical Engineering in 1978 at the University of Rome La Sapienza starting his career as Researcher at the former Centro Sviluppo Materiali S.p.A. (CSM) in 1979.

After the interruption of four years since 1983 working in the former Snia BPD S.P.D. company (now Avio) in the development of the solid propellant booster of the Ariane V commercial rocket, he came back to CSM in 1987 with the position of responsible of the Technical Computing Center and senior analyst for structural and thermal analysis.

He became Managing Director of the Automation and Rolling and Process Automation Division of CSM in 1992 and also was member of the staff of the CEO of the steelmaking public group ILVA. He retired in 2015 becoming Senior Consultant of the Danieli Automation S.p.A. company.

Currently, he is still active as Senior Researcher in the application of the new paradigms of the Smart Factory field with focus on the Digital Maturity and Impact assessment of Digitalisation in the steelmaking sector.

He published around 55 distributed along the two parts of his career. Firstly, in the field of Engineering Analysis, Fracture Mechanics & Fatigue and the application of Finite Element Methods to large non-linear analysis and then in the steelmaking Process Control and Management and the application of the Industry 4.0/5.0 principles started in 1992, when assumed the position of Managing Director. He also ha curato la pubblicazione dei Proceedings del Workshop on the application and perspectives of AI in steel manufacturing held on October 2022 just at the beginning of the Covid19 Pandemic.



<https://doi.org/10.1007/978-3-030-69367-1>



Felix ROHN

European Commission DG Empl

Felix Rohn's professional start made him explore the markets of Central and Eastern Europe as they emerged in the early 1990ies.

Equipped with this experience, he then worked in a project team for the monitoring and assessment of the EU Phare Programme, which paved the way to the EU enlargement of 2004.

In 1998 he became a civil servant in the European Commission where he worked in the policy fields enterprise, higher education, vocational education & training before he changed to skills and qualifications where he is working today. In DG Enterprise he drafted the first EU funding guide for the tourism sector; in DG Education & Culture he worked for the Tempus programme in Eastern Europe, and for the Leonardo da Vinci programme, where he coordinated the work of the National Agencies.

Today in charge of the Blueprint for sectoral cooperation on skills and working in the Pact for Skills team, he is the interface between his skills and qualifications unit in DG Employment and sectoral units in other DGs in the Commission.



Alejandro SANCHEZ CUENCA

Arcelormittal

Graduate on Mechanical Engineering (Universidad Politécnica de Valencia)
Master degree on Enterprises, Product and Services Management (Universidad Politécnica de Valencia)
MBA (ESIC Business and Marketing School)
Working in ArcelorMittal since 2005, holding different positions. Currently Head of ArcelorMittal University Spain and Resourcing Manager.



Antonius Johannes SCHRÖDER

TU Dortmund University

Social Research Centre Member of Management Board Social Research Centre (sfs)

Antonius Schröder is senior researcher and member of management board of sfs (Social Research Centre, Faculty of Social Sciences at the TU University Dortmund), responsible for international research. His focus is on Social Innovation (esp. combining technological and social innovation) and Vocational Education and Training. He has worked in and managed more than 30 European projects, recently co-ordinating two large scale EU Erasmus+ funded sectoral European Skills Alliances (ESSA www.estep.eu/essa and SPIRE-SAIS www.spire2030/sais). He is Managing Director of the European School of Social Innovation ESSI, Chairman of the Focus Group People within the European Steel Technology Platform ESTEP, Leader of the Permanent Working Group "Societal Innovation" of the Advisory and Programming Group for Processes for Planet (Sustainable Process Industry through Resource and Energy Efficiency (SPIRE)) and Chair of the Senate of the German Professional Association of Social Scientists (BDS).

Beneath publishing more than 80 books or articles, he is editorial member of the Atlas of Social Innovation

<https://www.socialinnovationatlas.net/>

and the Social Innovation Research Agenda

<https://www.e-elgar.com/shop/gbp/a-research-agenda-for-social-innovation-9781789909340.html>



Public Profile

<https://sfs.sowi.tu-dortmund.de/en/about-us/people/schroeder-antonius-johannes/>
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Dean STROUD

Cardiff University School of Social Sciences

Dean Stroud is a Reader teaching and researching on skills and workforce development, particularly in relation to the European steel industry. He has led and participated in numerous projects funded from a range of sources, mostly European, which have focused on skills needs, technological innovation, greening, equality and diversity, and, more generally, the 'human factors' of steel production.

He is co-coordinator of the Erasmus+ European Steel Skills Agenda (ESSA, <https://www.estep.eu/essa/>) project. Dean was a sector expert, with Antonius Schröder and Enrico Gibellieri, to the EASME-COSME funded Steel Sector Careers project (https://ec.europa.eu/growth/sectors/raw-materials/industries/metals/steelcareers_en) and is currently principal investigator on the 'human and social aspect' of the ALCHIMIA project, which uses AI to improve EAF efficiency <https://alchimia-project.eu>





Wojciech SZULC

sieć badawcza Łukasiewicz

Górnślaski Instytut Technologiczny (Former Instytut Metalurgii Żelaza - Imz); Proxy for international co-operation

Wojciech Szulc is the Proxy for International Co-operation at Łukasiewicz – Górnślaski Instytut Technologiczny (former Instytut Metalurgii Żelaza – IMZ) of Gliwice (GIT), Poland. He graduated in metallurgy from AGH - University of Science and Technology of Kraków in 1980. Then he began to work at the Instytut Metalurgii Żelaza as research worker and simultaneously he started PhD studies at AGH and received his PhD degree in the year 1985. In 1988 he worked as Post Doc at Lehigh University, Bethlehem, PA, USA.

His professional career is composed of two parts: the first covered scientific and technological activities in the field of plastic deformation of metals - and the second, concerned business consulting - e.g. market research, forecasting of steel products consumption, development of business plans.

As a result of his 43 years profession experience he executed almost 150 research projects, is co-authors of 7 patents, author and co-author of about 50 papers and 40 lectures given at conferences.

Since 2008 is an active member of the ESTEP Focus Group "People". Now he is member of the Board of Directors of ESTEP. He worked in the team developing European projects GT VET and Green Steel for Europe and now he represents GIT/IMZ in ESSA project as well as two others HEU projects MAXH2DR and TransZeroWaste



Andrea TROPEOLI

RINA Consulting - Centro Sviluppo Materiali S.p.A

Andrea Tropeoli is a senior consultant at RINA Consulting-Centro Sviluppo Materiali S.p.A., an applied research centre. He is currently working with the Directorate of Funded Research & Innovation, where he has been Responsible for Training Activities, training needs analysis, evaluation and monitoring of the training activities for over 18 years, as well as in other sectors for over 25 years.

Since October 2016 he has covered the role of representative for the Municipality of Terni as a Community Programming Expert and Training Processes in the Regional Technical Committee "Human Capital Development for Research and Innovation and Promotion of Higher Education". Starting from 1994 he has been gaining expertise in EU Programmes under different DGs. He is now involved in planning and managing EU projects (Horizon2020, Horizon Europe, Research Fund for Coal and Steel – RFCS, etc.).

He is member of Focus Group "People" in ESTEP (European Steel Technology Platform) and Member of Working Group PWG6 - Societal Innovation (A.SPIRE PPP).

He is currently also coordinator of Steelmaster and Eurosteelmaster, advanced training courses for the Italian and European steel industry currently at their XXV and XIV editions, respectively, where he gives lectures on Horizon Europe, RFCS and other funding programmes.

Public Profile

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Echterhoff VEIT

Head of Vocational Education and Training, thyssenkrupp Steel Europe AG, Duisburg

Veit Echterhoff is a senior manager and working for thyssenkrupp Steel Europe since fifteen years in different human resources positions. Currently, he is head of the Vocational Education and Training department. Approx. 1.100 apprentices are trained in five training centers located in North Rhine Westphalia in more than 20 different industrial, technical and commercial professions. Since 15 years Veit Echterhoff is member of ESTEP Focus Group People and participated in several projects. He is employer representative at the vocational training committee of the chamber of commerce and industry in Duisburg. Veit Echterhoff has studied Vocational Studies and Economical Education and awarded a doctorate in 2004.

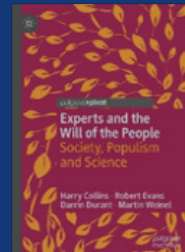
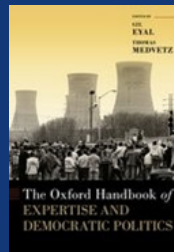




Martin WEINEL

Cardiff University
School Of Social Sciences Research Associate

Martin Weinel works as a sociological researcher at the School of Social Sciences at Cardiff University in Wales. With a background in the Sociology of Science, he has contributed to and interests in a range of fields such as the Sociology of Scientific Knowledge, Studies in Expertise and Experience, Science Communication, Socio-Legal Studies and the Sociology of Work. In the last 7 years, he has worked on a range of EU funded collaborative research projects that focus on the steel industry. He currently works on two EU funded projects - ESSA and ALCHIMIA - that focus on the steel industry.



Public Profile

<https://www.cardiff.ac.uk/people/view/38063-weinel-martin>



