

WORLD MANUFACTURING FORUM

WMMF

SPEAKERS

20 - 21 October 2021

WORLD MANUFACTURING FORUM

**Digital Technologies as Key Enabler for Circularity
Perspectives on the Future of Manufacturing**



**WORLD
MANUFACTURING
FOUNDATION**



Fernando G. Alberti

Professor, LIUC

Institutes Council Leader at Professor M.E. Porter's Institute for Strategy and Competitiveness, Harvard Business School (MA, US), program on Microeconomics of Competitiveness. He is Full Professor (tenured) of Strategic Entrepreneurship and Director of the Institute for Entrepreneurship and Competitiveness at LIUC University (Italy). He is also Professor of Microeconomics of Competitiveness and Distinguished Research Fellow at the Ecole des Ponts Business School in Paris (France). He is a former Industrial Strategist for UNIDO and The World Bank. In 2019 Professor Porter awarded Professor Alberti in the Hall of Fame of the Institute for Strategy and Competitiveness at Harvard Business School. His book *Entrepreneurship by Design* ranked first in business best sellers on Amazon.

Session 1
Building Future-proof
Global Value Chains
20 October 2021



Klaus Beetz

CEO, EIT Manufacturing

Klaus looks back on more than three decades of industry experience in software and system engineering, including five years of international delegation to Eastern Europe. Building on degrees in mathematics and philosophy, he started his professional career in software engineering at Nemetschek AG, a leading information technology company in the AEC (Architecture, Engineering, and Construction) sector.

Over the years, he gathered extensive intercultural experience in numerous international projects involving multicultural cooperation, especially on the European level. Among other duties, he was a member of the board of trustees at the European Software Institute (ESI), member of the executive board of Digital Europe (DE), member of the steering group at the Eureka cluster "Information Technology for European Advancement" (ITEA) and member of board of the Alliance Internet of Things Innovation (AIOTI).

He joined Siemens in 2002 and was heading the Global Technology Field "Software and System Engineering" and responsible for the worldwide research and technology transfer of innovative engineering technologies for software intensive systems and digital technologies. From 2011 to 2015 he was delegated as Director for Business Creation & Entrepreneurship to the Innovation Community EIT Digital within the European Institute of Innovation and Technology (EIT) and since 1st of January 2020 he is the CEO of EIT Manufacturing.

Session 2

People and Policies as
Enablers for Long-Term Resilience
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Barbara Beltrame Giacomello

President, BUSINESSMED

She is a Woman, Mother and Entrepreneur with an international background, currently Head of Communications of AFV Beltrame Group, the most important Italian player in the steel manufacturing industry.

She believes in her Country, in the future that Italy deserves and in the next generations that will turn this future into reality. These are the values that led her to be nominated Vice President of Confindustria Vicenza first with responsibility for Education and University, and recently, to be appointed as Vice President of Confindustria with the mandate for internationalization. She is also a proud member of Federmeccanica committee and President of BUSINESSMED (Union of Mediterranean Confederations of Enterprises).

Ms. Beltrame Giacomello is currently Chair of the B20 Trade and Investment Taskforce and Member of the Global Business Coalition.

Session 2

People and Policies as
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Zeynep Bodur Okyay

CEO and President, Kale Group of Companies

Born in 1964 in Istanbul, Zeynep Bodur Okyay graduated from the Italian High School in 1985 and earned a degree in management engineering from Istanbul Technical University in 1989. She attended Harvard University between 1990 and 1992 and earned a graduate degree in management.

From 1992 to 1993, Zeynep Bodur Okyay worked in various roles, including production, planning, and management, as a management trainee at the Çanakkale Seramik factory in Çan, Çanakkale. In 1995, she was appointed as an Executive Board Member and President of Kale Group's marketing companies. Since July 2007, she has been serving as Kale Group's President and CEO.

Zeynep Bodur Okyay is actively engaged in several NGOs, associations, foundations and chamber boards. Some of her current roles include: General Assembly Presidency of Istanbul Chamber of Industry (ISO); Vice Presidency of Economic Development Foundation; Board Membership at Foreign Economic Relations Board (DEIK); Coordinating Presidency of Turkey-EU Business Councils at DEIK; Presidency of Turkey-Italy Business Council at DEIK; Membership at Turkish Business and Industry Association (TUSIAD).

Furthermore, she is a member of the 2021 (Italian presidency) B20 International Advocacy Caucus. Due to her commitment in strengthening the public-private partnership towards sustainable development, she serves at the UNDP IICPSD and Impact Investing Advisory Boards.

Zeynep Bodur Okyay is also President of the Dr. (h.c.) İbrahim Bodur Kaleseramik Education, Health and Social Welfare Foundation.

Previously Zeynep Bodur Okyay assumed the Presidency of the C20 (Civil 20) Steering Committee during Turkey's G20. She also co-founded the Harvard Alumni Group in Turkey and supported the establishment of a Turkish language chair at Harvard University.

In 2006, Zeynep Bodur Okyay was awarded the title Cavaliere del Lavoro for her contributions and services to Turkish-Italian relations. In 2014, she was awarded the Official Order of Merit (Ufficiale Ordine al Merito della Repubblica Italiana) of the Republic of Italy. In 2010, Okyay received the 'Turkey in Europe Franco Nobili Award' for her contributions to relations between Turkey and the European Union and the Outstanding Service Award given by the Turkish Grand National Assembly to persons who deliver outstanding services to Turkey on a national and international level, contribute to promoting Turkey, and contribute to social welfare, education, happiness and social development.

Zeynep Bodur Okyay speaks fluent Italian and English. She is married to Osman Okyay, Vice-Chairman and President of Technical Division, Kale Group of Companies, and they have one child.

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Alexandre Bregantim

Chief Technology Officer, Prometeon Tyre Group

Mr. Alexandre Bregantim currently serves as Chief Technical Officer for Prometeon Tyre Group, a role assumed on begin of 2018. He has 25 years of experience in the tyre industry in Pirelli and since 2017 in Prometeon, with more than ten years of international experience working in Italy, China, and Brazil.

In his International experience, Mr. Bregantim first went to China in 2005 as the R&D Director for Pirelli China, where he was responsible for establishing the R&D Center in China. In 2009, Mr. Bregantim left his position in Pirelli China for Pirelli's headquarters in Italy, where he served as the R&D Deputy Director for Truck and Buses Tyres Worldwide. In Italy, he was responsible for a global project of new tyre products. In October 2012, Bregantim returned to China as the R&D Director of Pirelli Asia Pacific, taking charge of the homologation and product development of the APAC markets.

Mr. Alexandre Bregantim has multiple experiences coordinating global projects, managing product cost and orienting customers. Now he is in charge of the Global Technical area of Prometeon, responsible Research & Development, Quality and Manufacturing Department with operations in Turkey, Egypt and Brazil.

Bregantim obtained his master's degree in Mechanical Engineer from Paulista University in Brazil in 1993, in 1995 and his second Master's Degree in Administration and Controlling from Bocconi University in 2002. Mr. Bregantim was born in Brazil and is now living in Milan, Italy.

Session 4

The Role of Digital
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Giovanni Brugnoli

Vice President of Human Capital, Confindustria

Born in Busto Arsizio in 1970, Giovanni Brugnoli is married with three children. In 2004 he became Chairman of the Board of Directors of Tiba Tricot Srl of Castellanza, a leader company in the production of indomitable fabrics for sportswear, industrial fabrics and furnishings.

Always engaged in entrepreneurial association, he was President of the Industrialists Union of the Province of Varese (2011-2015).

Giovanni Brugnoli also performs the following positions:

Vice President Confindustria for Human Capital and Member of "Consiglio di Presidenza" (may 2016 – present);

Member of "Giunta" Confindustria (2009 – present) and "Consiglio Direttivo" Confindustria (july 2014- may2015);

Member of High Council of Public Education (MIUR) (october 2017- present);

Member of Steering Committee Fondimpresa (2018 – present);

Chairman of Unimpiego Confindustria (2019 – present)

Member of Board of Directors Previmoda Pension Fund (2013 – present);

Member of Board of Directors Banca Generali (2012 – 2021);

Member of General Board the Industrialists Union of the Province of Varese

Member of Board of directors of University Carlo Cattaneo – LIUC (2010 – present) and Board of Directors of the Association for LIUC (2009 – present);

Member of Executive Committee LUISS Free international University of social studies (2019 – present)

Member of Board of Directors LUISS – Free international University of social studies (2019 – present)

Executive Vice President ALUISS (2019 – present)

Member of Board of Directors ALUISS (2016 – present);

Chairman of Board of Directors AFA Amsterdam Fashion Academy B.V. (2019 – present)

Chairman of Board of Directors L. CAMPUS Srl (2019 – present)

Member of Board of Directors L. LAB (2019 – present)

Member of Board of Directors LUISS SSD Amateur Sport Society (2020 – present)

Closing remark
20 October 2021



Francesco Buzzella

President, World Manufacturing Foundation
& Confindustria Lombardia

Francesco Buzzella is 53 years old. He was born and currently reside in Crema (Italy). He is married with 2 children, respectively 23 and 20 years old.

In 1992, Mr. Buzzella graduated with full marks in Economics and Commerce at Bocconi University in Milan specializing in Economics of industrial companies.

From 1993 to 1994, he worked as Business Analyst at the marketing division of DOW Chemical Deutschland GmbH in Rheinmunster (DE).

In 1994, he joined the family company COIM, a chemical company specialized in polycondensation and polyaddition products. He also held various positions as Director and Chief Executive Officer dealing mainly with the establishment and development of production sites overseas. The COIM Group has a turnover of 1.1 billion euros, owns 18 sites – 9 of which are productive – and employs 1250 employees with than 20 nationalities worldwide.

Since 2014, Mr. Buzzella is Chief Executive Officer of Green Oleo. Since 2020, he is Chairman and CEO of the same company which specifically operates in the field of chemistry from renewable sources. Green Oleo has a turnover of about 60 million euros and 70 employees.

Since December 2013, Mr. Buzzella has been a member of the Presidency Council of Associazione Industriali della Provincia di Cremona. In 2017 he was elected President of the same Association, a position who came into an end in June 2021.

Since 2014, Mr. Buzzella is a member of the Federchimica Board and since July 2017 he has been a member of the Federchimica Presidency Board.

From September 2021, Mr. Buzzella is the President of Confindustria Lombardia.

**Welcome
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Michael Campbell

Executive Vice President & General Manager
of Augmented Reality, PTC

Mike Campbell is EVP and GM of Augmented Reality at PTC, responsible for overseeing product and technology strategy.

Mike has helped guide significant growth in PTC's AR technology, including advancing the many benefits of SaaS in AR such as real-time collaboration.

In his over 25 years at PTC, Mike has led many parts of the organization and shaped strategy for everything from AR and the IIoT to Digital Twin and CAD.

Mike's leadership has transformed the way connected products are serviced, operated, manufactured, and engineered.

Mike earned a B.S. in Mechanical Engineering from Boston University.

Keynote

Related to Connecting
the Industrial Frontline.
Augmented Reality
and the Future of Work
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Colin Dhillon

Chief Technical Officer, Automotive Parts Manufacturers' Association (APMA)

Colin Singh Dhillon is the Chief Technical Officer (CTO) at Canada's Automotive Parts Manufacturer's Association (APMA). He provides leadership to the Canadian automotive industry through national initiatives like Project Arrow, Canada's first zero-emission concept vehicle. His ongoing work in the fields of Connected, Autonomous, Security and Electrification of mobility (CASE) provides Colin with a global platform as a thought leader in the digitisation of the automotive sector.

Recruited to lead the APMA's technology outlook and strategic planning, Colin helped to launch APMA's Project Arrow, described by the Globe and Mail as "an audacious play to build an all-Canadian electric car". Design, engineered and built in Canada, this ground-breaking zero-emission vehicle project was launched at CES2020. Overseeing all technical aspects of this unique 'lightning rod' initiative, he's leading an effort to invigorate Canada's automotive industry.

A renowned technology leader, Colin is driving disruption-thinking on connected/autonomous vehicle technology projects and provides guidance to the automotive sector and multiple levels of government on cybersecurity, mobility, SMART Infrastructure, and Industry 4.0/digital manufacturing initiatives.

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Monica Duhem Delgado

Head of the Global Economic Intelligence Unit,
Mexican Ministry of Economy

Dr. Monica Duhem Delgado is an economist. She earned an MSc in Economics and Philosophy from the London School of Economics and a Ph.D. in Political and Social Sciences from Universidad Iberoamericana. Dr. Duhem has extensive experience in the Information Technology and Services industry and has promoted international standards for digital inclusion in Mexico.

She has collaborated with governments, civilian organizations, and the business sector in projects aimed at disseminating, and integrating the digital world, good practices, economic development, and public policies. She is currently Head of the Global Economic Intelligence Unit at the Mexican Secretariat of Economy.

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Green Policies for
a Sustainable Shift
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Efe Erdem

Executive Director, Mext Technology Center

Efe Erdem has been the Executive Director of MEXT Technology Center at MESS (Turkish Employers' Association of Metal Industries) since December 2018. He led the establishment of the Technology Center from concept phase to operationalization. The Center is focusing on the digital transformation of the industry by providing companies with a comprehensive up-skilling program, technical advisory services, access to a state-of-the-art Digital Factory and an extensive ecosystem of partners including technology companies, universities, and start-ups.

At the same time, he is managing the WEF (World Economic Forum) Affiliate Center for Fourth Industrial Revolution in Turkey, which acts as a public-private collaboration platform for technology governance.

In addition, he is currently leading the 'New Generation Industry' Working Group at TÜSİAD (Turkish Industry & Business Association).

Prior to this, he was Head of Innovation at Ford Otosan and led all company initiatives regarding corporate entrepreneurship and open innovation. In that capacity, he was also a member of the company's Executive Committee. Previously, he held various roles in Product Development such as Commercial Vehicles Program Management and Powertrain Systems Integration in Turkey and the UK, as well as Manufacturing Engineering. He graduated from Industrial Engineering Department of Boğaziçi University, Istanbul and holds a Master's degree in Management Sciences from London School of Economics (LSE).

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Carlo Ferro

President, Italian Trade Agency

Born in Savona, graduate of Business and Economics at LUISS Guido Carli University in Rome, Carlo Ferro with over 30 years as manager of companies competing in global markets. Assumed the Presidency of the ITA in January 2019.

At STMicroelectronics NV from 1999 to 2019, he held top management positions, finally as President Finance Legal Infrastructure and Services. Also, the Group's Chief Financial Officer for over 15 years contributing to the development of one of the Italy's and Europe's technology champions worldwide, with growth results (a turnover from 2 to 8.5 billion USD from the Initial Public Offering) and in the same period, an increase in employment (from 20,000 to approximately 43,000 employees) and value creation (average annual total return for shareholders of 10.6% per year). Also, an advisor of the European Commission as member of the IPCEIC, as well as adjunct professor of the LUISS Business School, and co-scientific director of its Master's programme in Corporate Finance. Previously Deputy Chairman at Assolombarda, representative for Industrial Policies and Revenue, and member of the Board of Directors of Digital Innovation Hub Lombardia.

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Attilio Fontana

President, Regione Lombardia

Attilio Fontana was born in Varese on 28 March 1952. He is the father of three children – Maria Cristina, Giovanni and Marzia – a criminal lawyer and the owner of a law firm located in Varese since 1980; he graduated in Law in 1975 at the University of Milan.

From 1979 to 1982 he took on the office of Conciliator of Induno Olona and from 1983 to 1988 he served as Honorary Assistant Magistrate in the District Court of Gavirate.

From 2009 to 2017 he was a member of the Board of Directors and Deputy Vice Chairman of Fiera Milano.

His political activity began with the birth of the Northern League; from 1995 to 1999 he was mayor of the municipality of Induno Olona; in 2006, he was elected mayor of Varese in the first round and re-elected in 2011; in these years he also held the role of President of ANCI Lombardia (from 2009 to 2014); then he became regional councillor of the Lombardy Region and President of the regional council from 2000 to 2005.

In 2018, he accepted his candidacy as President of the Lombardy Region and won the elections on 4 March with 49.75% of the vote.

**Welcome
and Opening Remarks
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Amit Kapoor

Honorary Chairman, Institute for Competitiveness

Amit Kapoor, PhD is Honorary Chairman, Institute for Competitiveness and visiting scholar, Stanford University.

In addition to the roles listed above, Dr. Kapoor is also president of India Council on Competitiveness, and chair for the Social Progress Imperative & Shared Value Initiative in India. He is also affiliate faculty for the Microeconomics of Competitiveness & Value Based Health Care Delivery courses of Harvard Business School's Institute of Strategy and Competitiveness, and teaches a course on Rebalancing Economic Systems at Stanford.

Amit is the author of bestsellers *Riding the Tiger: How to Execute Business Strategy in India* (Random Business) and *The Age of Awakening: The Story of the Indian Economy Since Independence* (Penguin Books), and editor-in-chief of the quarterly thought leadership magazine Thinkers.

Keynote

Related to Building Global Value Chains and the Role of People and Policies in the Long-Term Resilience of Manufacturing
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Leonel Leal

Advanced. Mfg & Digital Transformation Expert, Methodfx.co

Leonel Leal is an Advanced Manufacturing expert and founder of MethodfX, working to reimagine the future of manufacturing and production technology. Previously, Leonel was Director, Global Advanced Manufacturing Engineering at Whirlpool. At Whirlpool, Leonel created a global strategy for manufacturing design, industrial digital transformation, and application of concurrent engineering methodology. Leonel has built teams in Advanced Manufacturing Engineering globally to establish foundational technology capability, build production intelligence, and deliver products for a digital world. Leonel's leadership in concurrent engineering has allowed product and manufacturing teams to collaborate and introduce breakthrough products, at reduced cost, with radical lead-time reduction. Leonel believes in cross-functional advanced engineering development that goes beyond traditional means to make engineering a competitive advantage.

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Leonel has extensive experience in automotive, mobility, and electric vehicle startups, implementing hyper-speed manufacturing lead times and digital product design. Through stints at Tesla and FaradayFuture, Leonel created the concurrent design methodology to develop the Tesla Model-S and FF91 from initial concept through production-ready execution. Leonel began his career at Toyota, developing a foundation in Lean manufacturing, design thinking methodology, and operational excellence.



Felipe Lechuga

CEO, Lemaco – Director, ipCCompute –
Professor, Pontificia Universidad Católica de Chile

Felipe Lechuga is a Mechanical Engineer from Chile and has dedicated most of his professional career to topics related to manufacturing.

Currently, he is CEO of Lemaco, a light construction equipment manufacturing company in Chile and also a Director of ipCCompute, an Australian business that offers multiple software solutions for laser-cutting jobshops around the world.

Since 2015 Felipe has been teaching the Manufacturing Processes course at the Mechanical Engineering Department at the Pontificia Universidad Católica de Chile.

During 2020, Felipe created and led a project that manufactured and delivered almost 200 emergency mechanical ventilators to fight the COVID-19 pandemics in Chile.

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Robert Mansfield

Member of the Board of Directors,
World Manufacturing Foundation and Managing Director of IMSI

Robert Mansfield is currently the Managing Director at Intelligent Manufacturing Systems International, a founder of the World Manufacturing Foundation. Mr. Mansfield is a retired US Air Force Brigadier General, serving 34 years in various logistics and supply chain operational positions. He is a former HQ USAF Director of Supply. Executive leadership roles in which Mr. Mansfield served include the following:

- Director, National Center for Aerospace Leadership (NCAL) and Principal Investigator, National Aerospace Leadership Initiative (NALI) for the Connecticut Center at the Advanced Technology (CCAT), East Hartford, CT.
- Director of Global Supply Chain Services, Lockheed Martin Aeronautics Division, Fort Worth, TX.
- Practice Area Leader, Supply Chain Management, Altarum Institute, Ann Arbor, MI.
- Executive Director, Center for Aviation and Aerospace Leadership, Embry Riddle Aeronautical University-Worldwide, Daytona Beach, FL.

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Mr. Mansfield holds a Bachelor of Science degree (cum laude) from the University of Arizona in Business Administration, with emphasis in industrial development, and a Master of Science degree from the Air Force Institute of Technology in Acquisition Logistics Management. He is a graduate of the Defense Systems Management College Program Manager's Course, and the Air War College.



Anna Milanez

Labour Market Economist, Expert on Future of Work and AI - OECD

Anna Milanez is a labour market economist in the Directorate for Employment, Labour and Social Affairs at the OECD.

She leads a variety of research projects related to the Future of Work, including cross-country case studies of the impact of artificial intelligence technologies on the workplace with a particular focus on manufacturing firms. Other current research examines the use of AI to improve labour market matching and the impact of automation on labour market outcomes.

Prior to her research on the Future of Work, Anna worked in the OECD's Centre for Tax Policy, where she led work on the taxation of non-standard workers and contributed to the OECD's work on the taxation of digitalised firms. She holds a PhD in Economics from Harvard University.

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Molebatsi Shimane Molebatsi

Assistant Minister, Ministry of Investment,
Trade and Industry; Botswana

Molebatsi Molebatsi is an experienced business leader with diverse experience in strategy, operations management, policy development and implementation acquired in a career spanning over 30 years in the Private Sector (Business). He started his career in the Civil Service. He later joined the Private Sector and built his own business empire with complimentary business interests in Manufacturing (FCMG), Renewable Energy, Oil and Gas distribution and Infrastructure development, ICT and Eco – Tourism.

He is a highly regarded entrepreneur having delivered some of the largest national projects. He is a go – getter entrepreneur who has practical experience of policies and frameworks that make the environment more responsive to the needs of the Private Sector in general and the SMMEs in particular. This practical experience was gained through 20 years being in the Private Sector and having established some of the most sustainable business operations in Botswana. He possesses advanced leadership and stakeholder management skills required to operate in demanding and high complexity environments.

He has first hand practical experience in the Renewable Energy and Manufacturing acquired in the last 20 years through involvement in some of the PV Solar projects in some countries in the SADC region. Through African Power Services he was involved with some of the most notable players in Renewable Energy space, Mulilo Rewebale Energy Group and African Energy and Power Group and different Finance Houses to develop some Solar PV project of note in the region. Molebatsi Molebatsi is a Project Development expert with strength in structuring renewable energy projects, managing diverse partners, negotiating contracts in development projects and structuring financing of large Green Energy projects. He also set up Manufacturing enterprises of electrical components and partnered with Bidvets Voltex South Africa to establish the biggest electrical products retail network in the SADC region.

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Petra Monn

Program Lead "Factory Digitalization", Siemens AG

With a background in Business Engineering and Strategy, Petra Monn has always worked at the intersection of technology and business, most preferably manufacturing.

Before she joined Siemens, she held various positions in cement, aluminum and energy companies to optimize manufacturing footprint, supply chain and quality – encompassing various angles, such as strategy, IT or also commercials.

At Siemens she worked to build up the Digital Enterprise portfolio and business model in Switzerland. Since 2021 she leads the program fostering digitalization at all Siemens AG plants, by enabling scalable solutions for more productivity in a very diverse manufacturing environment – for train, electronic or cabinet assembly factories to mention only a few examples.

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Giorgia Munari

President, Young Entrepreneurs – Unione degli Industriali della Provincia di Varese

- Graduated in Public Relations and Advertising
- Master in Marketing at U.C. Berkeley in the USA
- Bocconi master's degree in Marketing Management
- Marketing Manager – La Termoplastic F.B.M. Srl in Arsago Seprio (VA), world leader in the design and production of handles, knobs and accessories for cookware as
- President Young Entrepreneurs – Unione degli Industriali della Provincia di Varese
- Member of the Board of Directors – Unione degli Industriali della Provincia di Varese
- Member of the Regional Committee Young Entrepreneurs – Confindustria Lombardia

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H.E. Suha Dawood Elias Najjar

Chairwoman, Iraqi National Investment Commission

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Yves Paindaveine

Head of Sector, Digitising European Industry governance,
DG CONNECT, European Commission

Yves has been working in the policy fields to foster the uptake of digital technologies since the Digital Agenda for Europe in 2010 and is now driving the Digitising European Industry initiative as Head of Sector for its governance, in DG CONNECT (European Commission). An engineer graduated in microelectronics and in computer science from the Polytechnic School of Louvain, he joined the European Commission as a scientific officer for R&I projects dealing with health informatics, later with network security and dependability. Prior to this, he led, among others, distributed systems and security projects at the Open Software Foundation Research Institute.

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Sylvie Pinsonnault

Senior Vice President, Strategies and Business Solutions,
Investissement Québec

Sylvie Pinsonnault is Senior Vice-President, Strategies and Business Solutions at Investissement Québec. Recognized for her leadership and expertise, Ms. Pinsonnault seeks to spur the growth and competitiveness of businesses.

In her role, she is responsible for formulating the Corporation's strategic plan and its action plans and strategic initiatives. She also has the responsibility of implementing the client experience and an integrated approach to the development of business solutions. In addition, she directs public relations, government relations, external communication, marketing and oversight activities. She is a member of the Management Committee and the Investment Committee.

Mrs. Pinsonnault sits on several boards of directors, including the Conseil de l'innovation du Québec (Quebec Innovation Council). Mrs Pinsonnault holds an MBA in International Business and Export Management from the City University Business School in London.

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Sudarsan Rachuri

Technology Manager, Advanced Manufacturing Office,
Office of Energy Efficiency and Renewable Energy,
U.S. Department of Energy

Dr. Sudarsan Rachuri is a Technology Manager in the Advanced Manufacturing Office, DOE. He is the Federal Program Manager for the CESMII (www.cesmii.org). Prior to DOE, he was the program manager at National Institute of Standards and Technology, research professor at George Washington University, and software architect in the CAD/CAE/PLM industry.

Dr. Rachuri is the Editor-in-Chief of ASTM Smart and Sustainable Manufacturing Systems journal (www.astm.org/ssms). Rachuri is the founding member and was the vice chair of the ASTM subcommittee on sustainable manufacturing (E60.13) and a member of ASTM Smart Manufacturing Advisory Committee. Rachuri is the founding member and Chair of the American Society of Mechanical Engineers (ASME) standards committee on Verification and Validation of Computational Modeling for Advanced Manufacturing.

Dr. Rachuri is an elected Fellow of ASME and AAAS (American Association for the Advancement of Science). Dr. Rachuri received the 2016 ASTM International President's Leadership Award. Dr. Sudarsan Rachuri was honored with the Excellence in Research Award by the ASME. Dr. Rachuri has published extensively and has given several invited keynote talks.

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Erwin Rauch

Assistant Professor, Free University of Bolzano

Erwin Rauch received his B.Sc. in Logistics and Production Engineering from the Free University in Bolzano (Italy). He also holds a M.Sc. in Mechanical Engineering from the Technical University Munich (TUM) and a M.Sc. in Business Administration from the TUM Business School. He obtained his Ph.D. degree in Mechanical Engineering from the University of Stuttgart with summa cum laude. He has more than 10 years of experience in management consulting as Consultant and later Associate Partner mainly in factory planning and production optimization projects. Currently he is an Assistant Professor for Manufacturing Technology and Systems at the Free University of Bolzano. In addition he is the Head of the Smart Mini Factory laboratory for Industry 4.0. He is also the author of over 150 scientific contributions and an expert/member of various associations and organisations (Associate Member EuroScience, World Manufacturing Forum, EPIEM Steering Board).

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Fabrizio Sala

Regional Minister, Regione Lombardia

Fabrizio Sala was born in Milan on June 13, 1971. Early in his career he held administrative and sales positions in the furniture industry field. From 2008 till the end of 2012 he was the of Head of External Relations and then he held the position of Contract Strategy Manager in two major Italian companies. In 1999 he was elected Mayor of the Municipality of Misinto (Monza and Brianza). He remained in office till 2009 when he has been appointed Councillor for the Environment first, and Vice President then, of the Monza and Brianza Provincial Government. In 2013 he has been elected Councillor of the Lombardy Region and he has been appointed Undersecretary for Expo 2015 and Enterprises Internationalization. In December 2014 he has been nominated Regional Minister for Housing, Social Housing, Expo 2015 and Enterprises Internationalization. In October 2015 he has been appointed Vice President of the Lombardy Region, also in charge for the International Relations. In March 2018 he has been re-elected Regional Councillor and he was appointed Vice President of the Lombardy Region and Regional Minister for Research, Innovation, University, Export and Internationalization. In January 2021 he has been nominated Regional Minister for Education, University, Research, Innovation and Simplification. He is in charge as Vice President of the Network of the European Regions Using Space Technologies (NEREUS) and President of the European Chemical Regions Network (ECRN).

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Luisa Santos

Deputy Director General, BusinessEurope

Ms. Santos is Deputy Director General at BusinessEurope, responsible for international relations and Chair of BusinessEurope's EU-UK Task Force. She is also the EU private sector representative in the G20 Empower group. She was a member of the TTIP Advisory Group and of the Expert Group on EU trade agreements of the European Commission. Her principal experience is in trade and the textiles sector, having acted first as the chief representative for the Portuguese textile industry in Brussels, later as Trade and Industry Manager for Euratex – the European Apparel and Textile Confederation. She was also the manager responsible for international partnerships – including a joint venture in India – for a leading Portuguese textile company. Her academic background is law and management.

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Donatella Sciuto

Executive Vice Rector, Politecnico di Milano

Donatella Sciuto received her Laurea in Electronic Engineering from Politecnico di Milano and her PhD in Electrical and Computer Engineering from the University of Colorado, Boulder, and an MBA from Bocconi University.

She is currently the Executive Vice Rector of the Politecnico di Milano and Full Professor in Computer Science and Engineering. She oversees International relations for Engineering, Research Strategies, ICT infrastructure and services, MOOCs and diversity inclusion.

Her main research interests cover the methodologies for the design of embedded systems and multicore systems considering performance, power and security metrics. More recently she has been involved in managing research projects in the area of smart cities and in the application of new ICT technologies to different application fields.

She has published over 300 scientific papers.

She is a Fellow of IEEE (The world's largest technical professional organization for the advancement of technology) for her contributions in embedded system design.

She has served as Vice-President of Finance and then President of the IEEE Council of Electronic Design Automation from 2009 to 2013 and she serves in different capacities in IEEE Awards Committees, in scientific boards of IEEE journals and conferences.

She is a Board member of the Bank of Italy, Human Technopole, Avio, Raiway and Fila.

**Welcome
and Opening Remarks
20 October 2021**



Taro Shimada

Corporate Senior Vice President, Chief Digital Officer,
Toshiba Corporation

Taro Shimada joined Toshiba in October 2018. He serves as Chief Digital Officer, responsible for supporting Toshiba's digital transformation and spearheading strategic business creation and promotion since April 2019. He was appointed CEO & Representative Director of Toshiba Data Corporation in February 2020 and President and CEO of Toshiba Digital Solutions Corporation in April 2020.

In carrying out these responsibilities, Mr. Shimada draws on a wealth of experience in hardware development, process consultation, and product life cycle management software. As an expert in Factory Automation, he has advised many of Japan's leading global manufacturers on digitization, and is currently an advisor to the Robot Revolution & Industrial IoT Initiative, and to the IoT Acceleration Lab. He has also contributed to the activities of Industrie 4.0 in Germany and Connected Industries in Japan. He has been a guest professor at Otemon Gakuin University in Osaka, Japan, since April 2020.

Session 1
Building Future-proof
Global Value Chains
20 October 2021



Lucilla Sioli

Director for “Artificial Intelligence and Digital Industry”,
Directorate-General CONNECT at the European Commission

Ms Lucilla Sioli is the Director for “Artificial Intelligence and Digital Industry” within Directorate-General CONNECT at the European Commission. She is responsible for the coordination of the European digitisation of industry strategy and for policy development in the area of artificial intelligence (AI). The directorate also supports R&D&I in key digital industrial technologies including microelectronics, photonics, robotics and AI. Lucilla holds a PhD in economics from the University of Southampton (UK) and one from the Catholic University of Milan (Italy) and has been a civil servant with the European Commission since 1997.

Keynote
Long-Term Resilience
in Manufacturing Industries
20 October 2021



Marco Taisch

Scientific Chairman, World Manufacturing Foundation

Since 1991, Marco Taisch is a Full Professor at Politecnico di Milano, where he teaches *Advanced Production Systems, Sustainable Manufacturing and Operations Management*.

- He is one of the coordinators of the *Manufacturing Group* of the School of Management, composed by about 40 researchers.
- During his academic career, he was one of the delegates of the Rector for Placement and Alumni, he was director of the Master in Business Administration (MBA) and of the Executive MBA at the MIP-Business School.
- Since 2002, the Manufacturing Group has been actively involved in 51 European research projects, amounting to 22.5 million Euros.
- One of his main focus is technological trends; he developed different technological roadmaps. He was also engaged as consultant by the European Commission for Manufacturing technology foresight.
- He is a member of the Board of the *European Factories of the Future Research Association* (EFFRA), of the *Board of the National Cluster "Fabbrica Intelligente"* and of the *Board of the Lombardy Region Cluster "Associazione Fabbrica Intelligente Lombardia"*.
- He was a member of the Advisory Board of the *Industry 4.0 National Plan*, coordinated by the then *Italian Ministry Economic Development* with Carlo Calenda. Prof. Taisch also supported the Lombardy region while defining the industrial and reshoring guidelines together with the then President of the Lombardy region, Roberto Maroni.
- Prof. Taisch is the co-founder and Scientific Chairman of the *World Manufacturing Foundation*, which organizes the *World Manufacturing Forum* on a yearly basis. The WMF is the international event for the definition of the manufacturing agenda which includes the *United Nations Industrial Development Organisation* (UNIDO) among its partners.
- Prof. Taisch is also member of the Unicredit Advisory Board of the Lombardy region.
- He is the President of MADE – Industry 4.0 Competence Center, the biggest among the eight competence centres of the Industry 4.0 National Plan. MADE has received funding for over 12 million Euros from the Ministry of the Economic Development and over 9 million in private investments from 44 partners, i.e., Siemens, Bosch, IBM, SAP, COMAU, Fiat Power Train, Gi-Group, Adecco, INAIL, KUKA, Rockwell Automation, among others.
- He was co-founder of Holonix, a spin-off of Politecnico di Milano, which he left in August 2017 to create in March 2018 *Miraitek4.0*, another spin-off of Politecnico di Milano, which concentrates on Industry 4.0. Miraitek4.0 has been recognised by the US magazine *The Manufacturing Outlook* as *Top Smart Manufacturing Solution provider in Europe 2021*
- Prof. Taisch also carries out consultancy activities for several companies including Leonardo, Thales Alenia Space and Siemens.

Presentation

Back to the Future Project:
Emerging Topics for Long-Term
Resilience in Manufacturing
20 October 2021

Presentation

WM Report 2021:
Digitally Enabled
Circular Manufacturing
21 October 2021



Nilgün Taş

Deputy Director, Department of Environment,
United Nations Industrial Development Organization (UNIDO)

Nilgün Taş is Deputy Director of the Department of Environment and Division Chief for Industrial Resource Efficiency at UNIDO. With 35 years of private sector development experience, she acted as Chief for Competitiveness, Business Environment, Industrial Upgrading, Chairperson for the Gender Mainstreaming Steering Committee, UNIDO Representative in Vietnam, Senior Advisor for UNIDO, UNDP, OECD and TIKKA since 1996. Previously, she was the Vice President of the Small and Medium Enterprise Development Administration in Turkey; founder and Board Member for the Turkish Credit Guarantee Fund Company (KGF), Projects and Programs Coordinator at the Turkish International Cooperation Agency (TIKA). Nilgün was honored with a Medal of Friendship by the President of Viet Nam in 2011, and Medals of Appreciation by the Minister for Planning and Investment in 2010 and the Minister for Science and Technology in 2011. She has B.Sc., M.Sc. degrees in engineering and an MBA.

Presentation
WM Report 2021:
Digitally Enabled
Circular Manufacturing
21 October 2021



Rebecca Taylor

Executive Vice President, The National Center for Manufacturing Sciences (NCMS)

Rebecca R. Taylor is the Executive Vice president, Business Development and Programs for The National Center for Manufacturing Sciences, the largest non-profit R&D consortium in North America focused on manufacturing. She is responsible for business development, government relations as well as program execution.

Taylor is excited about stepping into the unknown which is why she is in a leadership position at NCMS – where development of new and exciting manufacturing technology is done every day. Collaboration among companies, academia and government allows technology to be developed with less risk with greater speed and less of the unknowns – that is what NCMS is all about. She thrives leading these teams into the next generation of technology development.

Taylor serves on the boards for the Society of Manufacturing Engineers (SME) and Intelligent Manufacturing Systems International (IMSI). She also serves on the Advisory Board for the World Manufacturing Report and the Scientific Committee of the World Manufacturing Foundation. She has served on many government and industry advisory boards sharing her expertise in advanced manufacturing and technology development. She is also a member of the International Womens Forum and the recipient of the national STEP Award, recognizing outstanding women in science, technology, engineering and production.

She holds a bachelor's degree from the George Washington University and a master's degree from the London School of Economics and is planning to lead the next frontier in secure, productive manufacturing.

Presentation
WM Report 2021:
Digitally Enabled
Circular Manufacturing
21 October 2021



Marco Villa

Chief Operating Officer, Technip Energies

Marco Villa is Chief Operating Officer of Technip Energies.

He has previously served as TechnipFMC's President Onshore/Offshore (now Technip Energies) for Europe, Middle East, India, and Africa. From 2003 until 2017, Marco served in a number of leadership positions at Technip, including as President Europe, Middle East, India, and Africa, Region B President and Chief Executive Officer, Region B Chief Financial Officer and Export & Project Finance Manager of Technip Italy.

Prior to joining Technip, he worked as a finance specialist for Finmeccanica, an Italian multinational company specializing in aerospace, defense and security, and as the Head of the Finance and Risk Management Division of Telespazio (Telecom Italia Group), a European spaceflight services company. Marco graduated with honors with a degree in economics from Rome University.

Keynote

Related to Oil and Gas Sector
and Environmental Sustainability
21 October 2021



Randy Zadra

Canadian Ambassador, World Manufacturing Foundation
Managing Director Integris

Randy Zadra has over 20 years of experience in technology management in industry as well as academia. He is Managing Director of Integris Software and previously served as director at the National Research Council of Canada (NRC) where he led new international applied R&D co-innovation initiatives.

He is co-founder and board member of Automobility Enterprises, a commercial electric vehicle manufacturing company. He has worked for over 12 years in senior executive capacities in Montreal, Boston, and Washington D.C. with BCE (NYSE:BCE), Teleglobe, Orblynx, and Datawind. He also worked at the MIT Media Lab in Boston serving as Project Director for the Entrepreneurship and Development Program.

He taught several entrepreneurship courses, and served as a judge on the MIT business plan competition. He has studied at the University of Windsor, Carleton University and the MIT Sloan School of Management.

Session 4

The Role of Digital
Technologies in the Circular
Economy: Best Practices
from Manufacturers
21 October 2021

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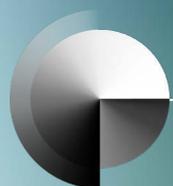
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