



MANUFACTURING THE FUTURE

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THE CONFERENCE FOR DISCRETE MANUFACTURING SECTORS

Wednesday, 6 April 2022

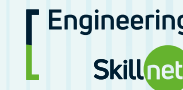
Conference Programme

#MTF22

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It gives me great pleasure to welcome you all back to Galway for Ibec's Medtech and Engineering Manufacturing Conference, 'Manufacturing the Future 2022'.

This is our first live physical event since 2020, when the global Covid-19 pandemic hit our Island. I am delighted that we have come this far, and that we are reconnecting over 200 leaders in manufacturing to explore new innovative, smarter and sustainable ways of doing business. Over the past number of years, businesses have been hit with so many challenges like, Brexit, Covid, and now the war in Ukraine. And Ireland's manufacturing industry has really proven to be robust, agile and innovative.

With over 260,000 people employed across 150,000 businesses in a range of sectors such as medtech, polymer technology and engineering, this conference offers a unique opportunity to bring together senior business leaders to network and learn so that we can set a course for future success. This conference allows us to explore key issues such as sustainable manufacturing, digitalisation, more holistic approaches to business, optimising supply chains, and more with 23 speakers over eight sessions.

Today is about learning from industry peers about harnessing the knowledge, experience, and skills-base to ensure that there is a collaborative effort to drive Ireland's manufacturing industries forward by learning from each other.

Our conference agenda has been developed by various inputs from the different sectoral members that make up the Medtech and Engineering Advanced Manufacturing Working Group, all who have worked hard to shape an agenda reflecting our member's needs.

Please do take the time to visit the finalists in the poster competition of Advanced Manufacturing, Operational Excellence, Best Implementation Programme for Apprenticeships, and our new category: Manufacturing Sustainability. The winners will be announced at the reception directly after the conference.

I wish you all an enjoyable conference and I look forward to meeting you over the course of the day.

Adrienne McDonnell
Senior Executive
Irish Medtech Association



Conference Schedule

08:00-08:45	Registration – Tea/Coffee	
08:45-09:00	Welcome and opening remarks Welcome address: Adrienne McDonnell, Senior Executive, Irish Medtech Association Opening remarks: Barry Comerford, CEO, Cambus Medical and Vice Chair, Irish Medtech Association	
09:00-10:30	PLENARY SESSION Global manufacturing: How the geopolitical and economic landscape is evolving	
10:30-11:00	Networking break	
11:00-12:00	SESSION 2 Digital manufacturing: How far have companies come on the industry 4.0 journey	
12:00-13:00	MÓR™ Enterprise Excellence: moving your business forward in a holistic manner	
13:00-14:00	Lunch and poster presentation	
PARALLEL SESSIONS 1		
14:00-15:00	SESSION 1A Talent to thrive Why a strong talent pipeline and a world-class education system is the cornerstone of economic and social progress <i>Main Conference Room</i>	SESSION 1B New process innovation RE-Engineering work through technical advances <i>Veranda Suite</i>

15:00-15:05	Networking break	
PARALLEL SESSIONS 2		
15:05-16:05	SESSION 2A Optimising your supply chain in a challenging environment <i>Main Conference Room</i>	SESSION 2B Operational excellence – at the core of all manufacturing <i>Veranda Suite</i>
16:05-16:30	Networking break	
16:30-17:30	Sustainable manufacturing – Who’s doing it and why?	
17:30-17:45	Closing remarks Adrienne McDonnell, Senior Executive, Irish Medtech Association	
17:45-18:15	Poster competition winners announcement	
18:15-19:00	Networking and reception	



Conference sessions

9:00 AM –
10:30 AM

PLENARY SESSION

Global manufacturing: How the geopolitical and economic landscape is evolving

This session will discuss the impact of how the global pandemic, climate change and geopolitics are driving companies to concentrate more than ever on a double transformation: smarter digitised manufacturing and a focus on environmental, social and governance (ESG) goals, leading to sustainable manufacturing practices.

How a growing number of companies are treating “sustainability” as an important objective in their strategy and operations to increase growth and global competitiveness will be explored. The panel will also debate increased costs in materials, energy, and compliance coupled with higher expectations of customers, investors, and local communities along with the challenges the recent war in Ukraine has put supply chains, energy, and certain resources under new pressures and constraints. A clear vision of where Europe and Ireland’s manufacturing needs to go and how organisations can get there will be the key topic.

Chair: Sharon Higgins, Director Member Services and Sectors, Ibec

+ Malte Lohan, Director General, Orgalim

+ Toby Sainsbury Interim Director Future Manufacturing Ireland Department of Enterprise,
Trade and Employment

+ Cormac Mac Donncha, VP, Operations, Thermo King EMEA



11:00 AM –
12:00 PM

Digital manufacturing: how far have companies come on the industry 4.0 journey

The EU has placed digitalisation of industry as a key component as it develops a long-term vision for the EU’s industrial future: it recognises digital transformation is at the core of the next industrial revolution; Boosting the uptake of digital technologies along and across industrial value chains and promoting firm growth is deemed key to Europe’s growth and competitiveness.

#MTF22

www.manufacturingthefuture.ie

In 2019 Ibec's Medtech and Engineering issued a survey to members, and results worryingly revealed that only 55% of companies have a digitalisation of manufacturing strategy, with only 1 in 5 (17%) claiming to have a full strategy.

Digitalisation is changing how products are designed, produced, used and maintained as well as transforming the operations, process and energy footprint of our factories and supply chains.

This session will explore how digital manufacturing adoption, implementation and deployment strategies are transforming companies processes and providing value to the bottom-line.

Chair: Joan Mulvihill Digitalisation and Sustainability Lead, Siemens

+ François Disch, new Digital Transformation Leader UK and Ireland, Schneider Electric

+ Phillippe LeTuteur, Director of Manufacturing Engineering, Boston Scientific

+ Domhnall Carroll, Site Director, National Advanced Manufacturing Centre



**12:00 PM –
1:00 PM**

MÓR™ Enterprise Excellence: moving your business forward in a holistic manner

The members of the Advanced Manufacturing Working Group have worked over the past year to revise the MÓR™ Benchmark model to advance leadership thinking and organisations capability in the ongoing pursuit of Enterprise Excellence. Developed in collaboration with the Irish Medtech Skillnet, this approach steers all organisations regardless of maturity and supplements existing in-house frameworks. This is a paradigm shift in mindset for many organisations in terms of their purpose -approach, value-based decision making, shared vision and aligned strategy for customers, employees, environment and society as a whole, all underpinned by a new cloud-based MÓR™ Enterprise Excellence framework.

This session will outline the new approach to progress an organisation's philosophy and the importance of the leadership role in understanding the adoption of a science-based systems approach to improvement. The new MÓR™ Enterprise Excellence framework will facilitate joined up thinking and collaboration, and is situationally adaptable and easy to follow.

A pilot case study, focussed on aligning people and processes to their purpose, will be presented along with how to expand beyond Lean thinking to 'Transformation', and a new 'Hub and spoke concept' which leads out to applications on, 'Talent', 'Digitalisation', 'Sustainability' and other areas within the organisation.

Chair: Brendan Sheppard, CEO, Smart Factory

- + Cathal O'Reilly, Senior Director Global Enterprise Excellence, Teleflex
- + Colm Sheils, Operations Director, Boston Scientific
- + Caroline Clancy, Chief Financial Officer, CLS and CLS MedPharma
- + Ann O'Connell, Head of Funded Projects for Medtech & Engineering, Ibec



2:00 PM –
3:00 PM

PARALLEL SESSION 1

Parallel Session 1a

Talent to thrive: Why a strong talent pipeline and a world-class education system is the cornerstone of economic and social progress

Over the last four decades Ireland has transitioned to a knowledge-intensive economy where a strong talent pipeline and a world-class education system is the corner store of economic and social progress. Ireland has developed this model of substance and is now challenged in retaining its place internationally as a nation with exceptional value, prosperity and investment, particularly in the context of a changing international tax regime as well as megatrends around climate change, demographic changes, digitalisation and globalisation to name a few. Ireland is very well positioned to use this new paradigm as an opportunity for Ireland's economy to evolve and focus on sustainable economic growth. In this session, we will examine both the recently launched Irish Medtech Association and Engineering Industries Ireland strategies which have identified talent and innovation at its core. Undoubtedly our education system is going to continue to play an important role if not more important role in the delivery of this evolved economic model. The increasing demand for and use of advanced analytics, AI and other data-oriented skills is resulting in significant shifts in the talent demanded. All organisations will need to consider their talent strategy to ensure they have a future pipeline of the skills they will require to operate effectively. The session will look at clear areas where we can make tactical improvements, particularly around preparing for the future of work, harnessing talent, participation in lifelong learning and diversity to name but a few.

Chair: Dr Sinéad Keogh, Head of Sectors and Director Medtech & Engineering at Ibec

- + Barry Comerford, CEO, Cambus Medical
- + MacDara Howley, Vice President, Finance, Medtronic
- + Alice O'Dwyer, VP HR Cook Group Europe, Cook Medical
- + Margaret Cox, Director, ICE Group



2:00 PM –
3:00 PM

Parallel Session 1b

New Process Innovation: RE-Engineering work through technical advances

To thrive in a competitive landscape, businesses must be willing to adapt and change – but what is business innovation, and how is it applied in a manufacturing setting?

This session will explore how companies are investing internally and externally in new processes that drive positive outcomes, and help them adopt and adapt to new innovations that can lead to the next generation of manufacturing engineering systems.

Many companies are unsure where to start in terms of leading and defining their innovation management strategies, and what future strategic initiatives will drive innovation and increase quality across their operations. The experts on this panel will explore some of the ways in which you can enhance your innovation processes and harness government supports, which help you choose the right tech innovation to meet your global manufacturing needs, whether that is in green manufacturing, product development and manufacturing processes.

Chair: Jamie Meehan, Cluster Manager, IDEAM

- + Séan McNulty, Founder & CEO, Insight Innovate
- + Emile Van Geel, Head of Medtech, EyeOn Ireland
- + Damien Kelly, Head of Engineering & Innovation, Delmec



PARALLEL SESSION 2

3:05 PM –
4:05 PM

Parallel Session 2a

Optimising your supply chain in a challenging environment

Every corner of the globe has been impacted by the overt geo-political issues such as Brexit, Covid-19 and the recent war in Ukraine. These issues are having a major effect on the worldwide manufacturing industry and its supply chains.

Companies have had to modify, adapt, and think outside the box in terms of managing their supply chains. This session will explore the changes and some initiatives that companies have been implementing, such as the use of digitalisation to create more dynamic logistics and production planning and improve the visibility and accuracy of materials throughout the global supply chain; building a flexible, agile, and consumer-centric supply chain as a response to fast-paced consumer demands; and changing business models by building strategic partnerships to enhance and strengthen supply chains.

In this session, we will hear from experts from both the manufacturing and supply chain industries, who have worked through some of these challenges, and implemented new processes that incorporate lean efficiencies, and navigated their way through trade tariffs, energy costs and transport and logistical nightmares to keep their supply chains moving – especially during times of uncertainty.

Chair: Anne Fitzpatrick, Manager Engineering Department, Enterprise Ireland

+ Seamus Keane, Industry Champion – Healthcare, Kuehne + Nagel

+ Grace McArdle, VP Supply Chain Operations, Elanco

+ Lorraine Gustafsson, External Supply Operations Lead, Pfizer



3:05 PM –
4:05 PM

Parallel Session 2b

Operational Excellence – at the core of all manufacturing

Operational excellence is the bedrock of manufacturing. Ireland is recognised as a leader in manufacturing with the greatest number of Shingo Prizes for Operational Excellence, per capita in the world. As we look to the future, we need to embrace innovative technologies to remain globally competitive.

This session will hear from best-in-class organisations who have managed to harmonise their operational excellence strategies across global sites by making changes such as: introduce standard work practices; move their operational excellence strategy from inside the plant, right throughout their supply chains; and transition from idea to execution in their operations strategy.

We will hear from companies who have applied the fundamentals of lean while transitioning to more digitised operational excellence practices, and how they can use some of the National State Agency supports to help them in the process.

Chair: Pauline O’Flanagan, Director Engineering Industries Ireland, Ibec

- + Frank Murphy, Principle Engineering & Op Ex Lead, Penn Engineering
- + Donal Galligan, Managing Director, Takumi Precision Engineering
- + Kevin Heffernan, General Manager, Jabil Healthcare
- + Ruairí Ó hAilín, Manager Op Ex and Digital, Enterprise Ireland



4:30 PM –
5:30 PM

Sustainable manufacturing – Who's doing it and why?

Growing public support for climate ambition and action is shaping environmentally conscious change at national and international level. Managing operations in an environmentally and socially responsible manner as sustainable manufacturing more than a buzzword but a business imperative. Companies across the world face increased costs in materials, energy, and compliance coupled with higher expectations of customers, investors, and local communities.

A growing number of companies are treating sustainability as an important objective in their strategy and operations to increase growth and global competitiveness. Indeed, a large and growing number of manufacturers are realising substantial financial and environmental benefits from sustainable business practices.

In this session we will hear from companies who are navigating the sustainability legislation and are already moving greener and more sustainable processes and solutions. We will also learn the difference between: sustainability and ESG, and the impact of climate change targets on businesses and business models; discuss how ESG objectives can align with compliance requirements; and how digitisation is being used to achieve sustainability targets.

Chair: Ed Byrne, General Manager, Galco Steel

+ Neil Walker, Head of Infrastructure, Energy and Environmental Policy, Ibec

+ Michael Barry, Director, MJB Consulting

+ David McCormack, Director for Sustainable Manufacturing, Irish Manufacturing Research



Poster Competition

Following today's closing remarks, we will announce the winners of our poster competition across five categories. The judges will make their final deliberations over the day and the winners will be announced at approx. 5.45pm. Our competing companies are here throughout the day and their posters are on display in the exhibition area so we encourage you to visit them to discuss their projects. The winners will be announced on stage by our sponsors.

Advanced Manufacturing – Award sponsored by Irish Medtech Skillnet

Award presented by Ann O'Connell, Head of Ibec Medtech & Engineering Funded Skills Networks



Operational Excellence – Award sponsored by LBS Partners

Award presented by Gene Leonard, Managing Director, LBS Partners



Manufacturing Sustainability – Award sponsored by Irish Manufacturing Research

Award presented by David McCormack, Director of Sustainable Manufacturing, Irish Manufacturing Research



Best Company Implementation Programme for Apprenticeships in Polymer & Manufacturing Engineering

Award presented by Dr Sinéad Keogh, Head of Sectors and Director, Medtech & Engineering at Ibec



Conference sponsors and exhibitors

Irish Medtech Association, Engineering Industries Ireland and Polymer Technology Ireland would like to thank its sponsors and exhibitors who will all be available to meet with you in our conference exhibition area.

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Boston Scientific transforms lives through innovative medical solutions that improve the health of patients around the world. As a global medical technology leader for more than 40 years, we advance science for life by providing a broad range of high-performance solutions that address unmet patient needs and reduce the cost of healthcare.

www.bostonscientific.com

The logo for Boston Scientific, featuring the words "Boston Scientific" in a blue serif font.

DePuy Synthes

DePuy Synthes, the Orthopaedics Company of Johnson & Johnson, provides one of the most comprehensive Orthopaedics portfolios in the world that helps heal and restore movement for the millions of patients we serve. DePuy Synthes solutions, in specialties including joint reconstruction, trauma, craniomaxillofacial, spinal surgery and sports medicine, in addition to the VELYS™ Digital Surgery portfolio, are designed to advance patient care while delivering clinical and economic value to health care systems worldwide. Building on our proud product innovation and legacy of industry firsts, we are reimagining the orthopaedic landscape with new advancements in medical technologies and digital surgery across the entire continuum of care to Keep People Moving today and tomorrow.

www.jnjmedicaldevices.com

The logo for DePuy Synthes, featuring a red stylized infinity symbol followed by the text "DePuy Synthes" in a blue sans-serif font, with "THE ORTHOPAEDICS COMPANY OF Johnson & Johnson" in a smaller font below.

Irish Medtech Skillnet

Working in partnership with Skillnets and our contracting organisation, the Irish Medtech Association (Ibec sector), the Irish Medtech Skillnet has over the past number of years grown substantially in direct response to the training needs of industry. Total expenditure (between 2018 to 2021) is approximately €7.5 million, with 40% contribution from member companies and the remaining 60% funded by the state. Targets of over 10,000 trainees and >70,000 training days have been achieved.

www.irishmedtechskillnet.ie



Stryker

Stryker is one of the world's leading medical technology companies and, together with our customers, is driven to make healthcare better. We offer innovative products and services in Orthopaedics, Medical and Surgical, and Neurotechnology and Spine that help improve patient and hospital outcomes.

www.stryker.com



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Bio Pharma Chem Skillnet

BioPharmaChem (BPC) Skillnet was established in 2006 with the aim of fostering a climate of whole-company development in the provision of Industry Specific technical and non-technical training within the Pharmaceutical, BioPharma, Chemical, and Medical Device sectors. BPC Skillnet is a national government funded network that supports the growth and development of global and indigenous organisations across Ireland. Promoted by BioPharmaChem Ireland and co-funded through Skillnet Ireland and member companies, the BPC Skillnet, through continuous interaction and engagement across industry, has developed into a network with unique capabilities to support learning and development while also facilitating invaluable networking and benchmarking opportunities for the sector.

www.bpcskillnet.ie



Engineering Skillnet

Engineering Skillnet work with companies in the Engineering sector to address skills gaps and provide industry-specific training programmes through government funding. By working closely with our steering group and Engineering Industries Ireland members, we can use their expertise to develop industry specific courses that impact the entire sector and over up to 37% off training courses. Engineering Skillnet membership is free to anyone involved in Irish engineering sectors including manufacturing, automotive, aviation, electronic, steel, electrical and mechanical sub supply sectors as well as packaging, paper and the print industry.

www.engineeringindustriesireland.ie



Enterprise Ireland

Enterprise Ireland is the government organisation responsible for the development and growth of Irish enterprises in world markets. We work in partnership with Irish enterprises to help them start, grow, innovate, and win export sales in global markets. In this way, we support sustainable economic growth, regional development and secure employment.

www.enterprise-ireland.com



First Polymer Training Skillnet

First Polymer Training (FPT) Skillnet operates as an enterprise led training network for the Irish polymer industry and is funded by Skillnet Ireland and member companies. The network is in operation since 1999, initiated and promoted by Polymer Technology Ireland (Ibec). First Polymer Training's objective is to provide subsidised technical training to industry, both at its technical training centre in Athlone or in-company as required. The centre in Athlone is a state of the art facility with a range of injection moulding machines, an extruder, a thermoformer and purpose built maintenance training boards. First Polymer Training is the sole QQI validated provider of a range of polymer specific programmes, and also works closely with Athlone and Sligo Institutes of Technology on delivering 3rd level polymer programmes for industry. There are 140 companies currently in membership engaged in polymer processing, across the MedTech, automotive, construction and electronics sectors.

www.firstpolymerskillnet.com



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IDA Ireland

Ireland's inward investment promotion agency, the IDA, is a non-commercial, semi-state body promoting Foreign Direct Investment into Ireland through a wide range of services. We partner with potential and existing investors to help them establish or expand their operations in Ireland. Over the past 70 years IDA Ireland has evolved to become a global force in attracting FDI to Ireland and a key influencer in the development of the Irish economy and its reputation abroad.

www.idaireland.com



Irish Manufacturing Research

Irish Manufacturing Research is a leading Research and Technology Organisation providing a portfolio of research, training and consultancy services to Industry across four thematic pillars: Digitisation, Sustainable Manufacturing, Design for Manufacturing, Automation and Advanced Control.

www.imr.ie



LBS Partners

Founded in 2002, LBSPartners is a business consultancy that provides leadership and operational excellence training that specialises in the areas of digitalisation, business excellence & strategic direction. We are guided by the LBS business transformation framework, enabling our clients to becoming a better business'. We work closely with our clients to help them transform into the streamlined efficient operation they aspire to be. Together we do this by guiding our clients in developing skills and techniques to becoming more efficient, productive and cost effective to fulfil the value proposition they offer to their customers. We have extensive Digital, Operational Excellence and Leadership experience in Foreign Direct Investment (FDI) and Irish owned, indigenous companies across a number of sectors, including: manufacturing, engineering, financial services, public sector and medical devices.

www.lbspartners.ie



Manufacturing Engineering and Polymer Technology Apprenticeships

In 2017 the Irish Medtech Association and Polymer Technology Ireland, the Ibec groups that represents the medtech and polymer sectors launched three new apprenticeships as part of the Department of Education and Skills wider national strategy.



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These include:

- Manufacturing Technician Level 6 – 2 years
- Manufacturing Engineer Level 7 – 3 years
- Polymer Processing Technologist Level 7 – 3 years

These three new industry-led apprenticeships are the fundamental building blocks to future proof the medtech and polymer sectors in Ireland as well as meeting the skill needs of the broader manufacturing industry and creating world class talent.

www.manufacturingapprenticeships.ie

www.polymertechnologyapprenticeships.ie

Siemens

Technology to transform the everyday – Since 1847 Siemens has empowered customers to transform their businesses, so that they can impact the world. Together with our customers and ecosystem partners we are helping to change the lives of billions of people for the better.

www.new.siemens.com

The Siemens logo, consisting of the word "SIEMENS" in a bold, teal, sans-serif font.

West

West is a leading provider of innovative, high-quality injectable solutions and services. As a trusted partner to established and emerging drug developers, West helps ensure the safe, effective containment and delivery of lifesaving, life-enhancing medicines for patients. With almost 10,000 team members across 50 sites worldwide, West helps support our customers by delivering over 40 billion components and devices each year. West employs over a thousand team members across Ireland, including its manufacturing facilities in Waterford and Dublin, as well as a new Global Finance Center in Dublin. The Waterford facility will supply millions of rubber vial stoppers to over a dozen global customers, that could be used to package over a billion vaccine doses in multi-dose vials, as part of the COVID-19 vaccine programme in 2021. West's Dublin facility has 20 years of operations and sustained growth including high volume, complex device manufacturing. The Dublin team provides design, development and manufacturing services for pharmaceutical and medical technology customers. With almost 100 years of experience and a reputation for leadership in quality, West is internationally recognised for its excellence in the manufacturing of pharmaceutical packaging and medical devices.

www.westpharma.com



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