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Prof. A.G.Bruzzone

**MIPET Director** 



Mastering Industrial Plant Engineering and Technologies is an initiative promoted by a joint Team of Academic Institutions, Industries and Associations. MIPET includes an International Master focused on these Issues. The MIPET Excellence is based on the strong cooperation among Academic and Technical Experts coming from Prestigious Universities and Leading Companies operating in this area with special attention to Energy, Iron & Steel, EPC, Large **Industrial Plants and Process Industries, Oil & Gas** DAPPOLONIA

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mipet@itim.unige.it

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<u>MIPET</u> is the <u>International Master in Industrial Plant</u> <u>Engineering of Genoa University</u> (il Master Internazionale in Impiantistica e Tecnologie, Scuola Politecnica, Ingegneria, Università di Genova).

<u>MIPET</u> is the 1st and most consolidated International Master Program of Genoa University, <u>fully sponsored privately by</u>

<u>Major Multinational Companies</u>, investing on young Engineers and looking for talents. <u>12 Successful</u> <u>Editions in 12 years</u> confirm the strong Industrial Interest in <u>MIPET</u>







<u>MIPET XV Edition</u> starts end of <u>June 2024</u> and puts you at <u>Work</u> in only 4 months. After Labs



& Lectures, you will conduct your <u>Internship in a Leading</u> <u>Industry</u> for 3 additional months, just to present your <u>Project</u> <u>Work</u> and being ready to evaluate final Job Proposals by Companies. MIPET Industries participate in Selection Process, they invest time & money in <u>MIPET</u>, so it's not surprising that our <u>Placement Rate overpasses largely 80%</u>.

MIPET guarantees possibility to participate to Engineers graduating in April, Academic Year last session First Week is focused on English Lectures and there is a Summer Break in August



The Master in Industrial Plant Engineering and Technologies of the Genoa University

# LEADING ENGINEERING

MIPET Program is developed by Industrial Top Experts & Academic Scientists sharing 50% teaching on Practice & Theory of Technical Advances of Industrial Plants and Technologies. In addition, Soft Skills Courses (e.g. Project Management, People Management, HR Orientation<sup>\*</sup>, Spanish for Latin American Markets) and Seminars, by Managers, Engineers and Scientists of 5 Continents, prepare you to Work all around the Globe.

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# GOOD OPPORTUNITIES

<u>MIPET Outstanding Candidates</u> get free registration, while large majority (usually 90%) receives <u>Grants</u> and have to pay only 1'900 Euro; by the way, MIPET Sponsors are expected to refund even this amount to students that they hire at the end.

The MIPET Internships are usually paid by Industries.

This year, the Companies are offering <u>Great Job Opportunities</u> to <u>Italian Engineers</u> attending MIPET and willing to work, based in their Genoa Offices or in Italy.





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<u>MIPET</u> addresses the New Enabling Technologies to support the development of New Solutions, Services and Products for *Industrial Plant Engineering*, relying in <u>Industry 4.0</u> Paradigm and using new generation <u>IIoT</u>, <u>M&S</u>, <u>VR</u>, <u>AR</u> & <u>AI</u>.

These aspects evolved quickly along recent crisis to learn how to support <u>Design</u>, <u>Installation</u>, <u>Commissioning & Operations</u> by real <u>Digital Twins</u>, <u>Remotely</u> and <u>Effectively</u> Industrial Plants







To be aware and to understand how to get benefits of New Enabling solutions requires know how as well as the ability adopt a new Mindset So, MIPET Engineers have opportunity to look **Industrial Plants as** at Cyberphysical Systems,





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You will work in <u>International</u> <u>Teams</u>, talking English all the time, while our Technical English Lectures will further improve you on it. The <u>4 Months</u> of <u>Full Immersion</u> in <u>Labs Activities, Computer</u> <u>Simulations, RPGs<sup>\*</sup>, Plant Visits,</u>



RPG Role Play Game

Exercises & Lectures, will make you ready to start a Real Project Work in a Major Company in the Fall, usually paid by Hosting Company.



# DESCRIPTION & SCOPE

MIPET is an One-Year Degree Program focused on preparing new generations of young specialist dedicated to Process & plant engineering, projects and activities in Industrial Plants, EPC & Constructions. MIPET is directed by the DIME, UNIGE & Polytechnic School in close cooperation with Industrial Partners which represent best reputed Global Players in Engineering and Construction Market for Iron & Steel, Energy and Automation. MIPET main goal



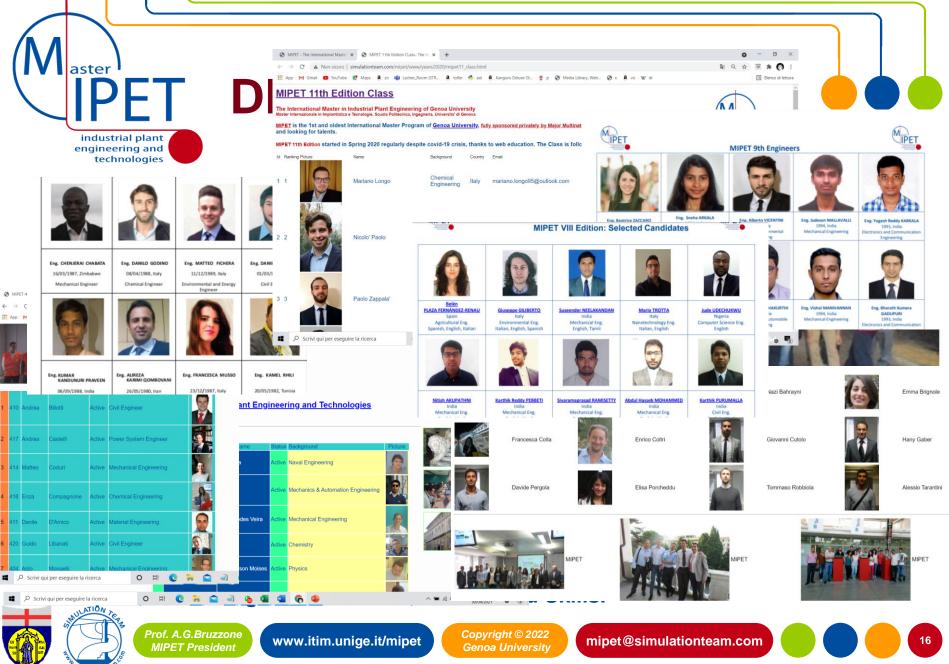
is to meet the requirements of such Industrial Partners in terms of Professional Skills and Technological Competencies for Young Talented Engineers.

MIPET exploits the synergy among Genoa University Engineering Faculty and top level Companies and pursues the Innovation & Excellence in Processes and Products through a Continuous Enhancement of their Competitive Assets: Human Capital, Technologies, Know How, Models and Skills.



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Jack Welch (GE CEO 1981-2001 from \$14 billions market value to over \$410 billions): Globalization has changed us into a company that searches the world, not just to sell or to source, but to find Intellectual Capital - the World's Best Talents and Greatest Ideas











Scientists investigate that which already is; Engineers create that which has never been Albert Einstein (Physics Nobel Price 1921, Princeton University)



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# **MIPET OUTCOME**

This Master is devoted to create System and Process Engineers, Technical Coordinators operating effectively in Project Teams within Global Engineering and Constructions.

MIPET provides a deeper insight in Industrial Plants and enables the students to get a complete overview of a Project with all its technical aspects along each phase: Proposal, Basic & Detailed Engineering, Procurement, Manufacturing, Erection, Commissioning and Service. MIPET Graduates acquire capabilities in all the critical areas (Mechanical, Processes, Components & Materials, Electrical, Instrumentation & Automation, Safety Engineering, Cost Estimates, Project Management, Risk Analysis, Quality Assurance) combined with a specific training in specific industrial sectors (e.g. Power, Renewable Energy, Hot Metals, Sustainability) as well as with valuable Internship Experiences in Companies.



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The International Master in Industrial Plant Engineering & Technologies of Genoa University Master IPET WHO SHOULD ATTEND

- Young Engineers with strong potential and technical background
- International Excellent Students of Engineering Departments
  from all around the world
- Young Engineers with experience in Plant Engineering from world-wide
- Engineers already employed in Engineering and Construction Companies who are interested in attending specific Operative Modules of the MIPET Master Program such as Project Management, Constructions, Standards and Regulations, Safety, Security & Risks or to negotiate possibility to take the full Degree















# **MIPET ADDED VALUE**

## **BENEFITS FOR YOUNG ENGINEERS**

- High Profile Professional Education devoted to provide High Value Skills
  in Industrial Plant Engineering and Technologies
- Continuous Interaction with Top Quality Experts from Academia, Institutions and leading Engineering & Construction Companies.
- Very Qualified Selection and Evaluation Processes that guarantee the Master Attendees as highly qualified resources for top companies.
- Opportunities to complete Experiences on Field on complex Industrial Plant Projects and to work on International Frameworks
- Contacts and visibility to major E&C\* Companies and EPC\*\* Contractors (EPC) operating at International Level.
- Development of Human Potential by training and improving their Individual skills & Team Working with other engineers from worldwide
- Courses of Technical English and other Languages: e.g. Italian, Spanish

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**EPC Engineering, Procurement & Construction** 

E&C Engineering & Contracting













The Master in Industrial Plants includes:

- Basic Modules for Industrial Plant Engineering and Construction, including Process Engineering, Plant Automation, Materials & Technologies, etc.
- Operative Modules on Critical Issues for Industrial Plants (e.g. Engineering Standards and Regulations, Project Management, Safety Engineering, etc.)
- Thematic Modules on Innovative Solution for Specific Plant Sectors (e.g. Power, Renewable Energies, Iron and Steel, Water Treatment, Sustainability)
- Company Internships devoted to acquire on-field experience, including the development of the Project Work related to a Real Case
- Visits to Industrial Plants and Engineering, Research & Development Centers and Labs.
- Tests for certifying individual skills and capabilities acquired by the Attendees on specific topics at the end of each single module.
- Professional Modules, integrated in the Master Program, but open for external attendees as stand alone courses. These modules include individual and team Projects Works to be carried out in competition/cooperation interacting with experts.







Operative Modules are compact and specific courses (1-5 days), which are an integral part of MIPET and at the same time are open and offered to External Companies, Technical Employees or Professionals interested in these subjects. MIPET Sponsors get 2 free seats in each Operative Module and they have discounts & opportunities for further registrations into Operative & Thematic Modules.

These modules are carried out jointly by the Industry and the Academy and are characterized by strong interaction between students and teachers through Simulations and Role Play Games performed on specific case studies. Among the

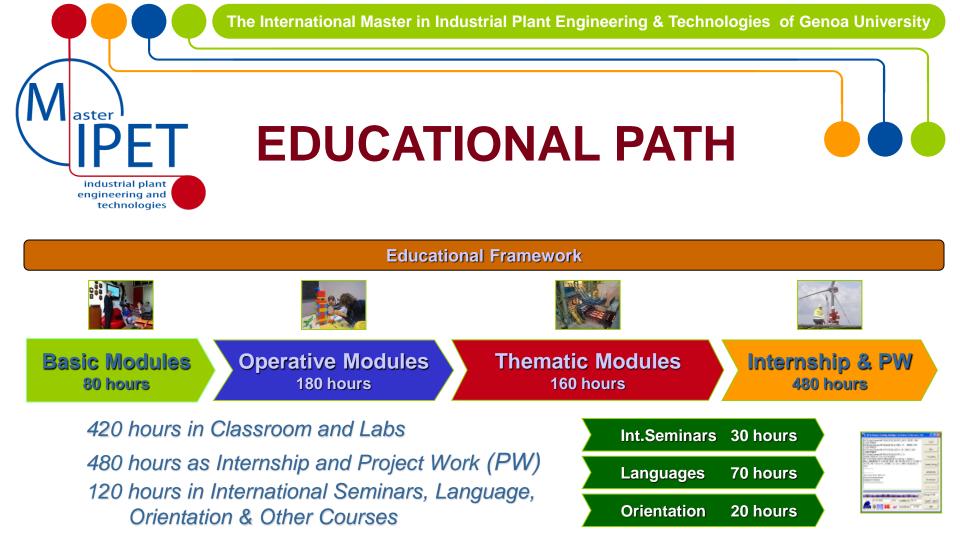
others the following modules are foreseen:

- Engineering Standards and Regulations
- Construction
- Project Management
- Safety & Risks



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**Innovative Technologies, Techniques and Methodologies for Industrial Plants** 

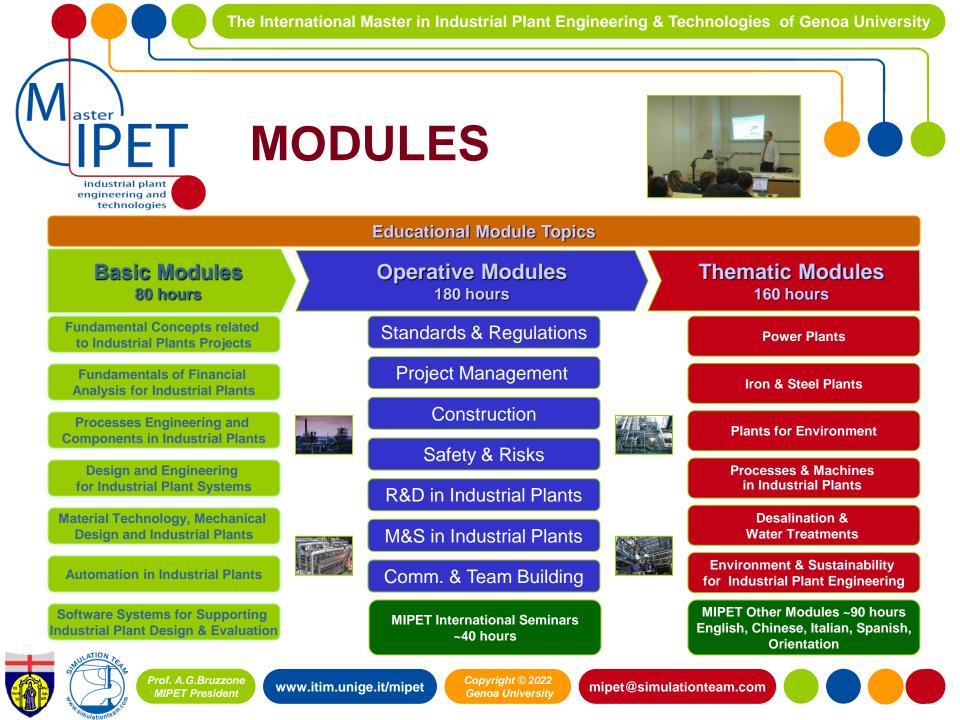


The Education framework of MIPET is focusing on industrial plant engineering and technologies by adopting different methods such as Lectures, Case Studies, Exercises, RPG (Role Play Games), Computer Simulations, Use of Models and Software Tools, Interactive Blended Education, Industrial Plant guided Visits and R&D<sup>\*</sup> Lab Experiences



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# Engineering Standards & Regulations

#### **Operative Module of MIPET**





**Industrial Plant Engineering & Technologies** 

#### **Objectives**

Ordine degli Ingegneri della Provincia di Genova

**Engineering Standards & Regulations** is devoted to organically present the existing and future norms to be adopted for the design and construction of Industrial plants; the course provides knowledge for supporting problem solving for companies facing for the first time regulations and codes in National and International industrial plant projects

#### **Course Attendees**

**Engineering Standards & Regulations** is designed for young engineers, specialists and professionals active in Industrial Plants enabling them to make use of the state-ofthe-art norms, codes and standards for the design of equipment and systems.

#### **Structure and Approach**

This modules is organized as a 36 hours course to be completed in 5 days by interactive sessions with experts coming from Industry and R&D. The approach includes lecturing, case studies, exercises, experiences, RPG, competitive and cooperative simulations



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#### **Operative Module of MIPET**





**Industrial Plant Engineering & Technologies** 

### **Objectives**

**Safety and Risks Module** is devoted to present methodologies, techniques and technologies related to safety and risk evaluation during design, construction and operation of an Industrial Plant.



### **Course Attendees**

**Safety and Risks Module** is designed for young engineers, technicians and professionals active in the engineering of Industrial Plants enabling them to deal with safety rules and risk analysis according to the state-of-the-art legislation.

### **Structure and Approach**

This modules is organized as a 36 hours course to be completed in 5 days by interactive sessions with experts coming from Industry and R&D. The approach includes lecturing, case studies, exercises, experiences, RPG, competitive and cooperative simulations



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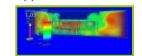
#### **MIPET Operative Modules**



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# Standards & Regulations

- Large Industrial Plants: an Overview on Standards, Regulations and Administration Authorization Processes along Project Life Cycle
- Case Study on Impact of International Regulations on Industrial Plants with Special Attention to Directive 2006/42/CE, ATEX, PED.
- Quality Assurance and Control in Industrial Plants
- Quality, Safety and Environment Integrated Management in term of standards and regulations
- Environmental Impact Evaluation
- Introduction on Fire Safety and Explosion Risk for Industrial Plants. Risk Analysis for Fires and Explosions: methods, documents and classification
- Safety Concept. Innovative Engineering Solutions forn Fire and Explosions in Industrial Plants. Combination of Explosion/Fire Risks
- Fire Safety and Explosion Simulation
- Actions: organization, prevention, protection and mitigation solutions
- EXPLOSAD (Experience on Process Plant Safety Design): Case Study based on Simulation applied to fire and explosion protection applied to an industrial plant





# Safety & Risks



Facoltà di Ingegneria CONFINDUSTRIA Università degli Studi di Genova GENOVA



General Safety concepts related to Industrial Plants Life Cycle (accident pyramid, cause effect analysis, risk analysis, training and information, BBS, main indexes and matrixes, organization)

- Specific safety characteristics on Process Plants
- General Risks on Industrial Plants
- Methodologies and behavioral aspects related to safety and risks to be considered in plant design and construction
- Behavioral aspects influence on accident frequency
- Safety Design
- Quantitative and Qualitative methods to support risk evaluation and management
- Introduction to integrated safety and risk evaluation systems
- Case Study on Safety Integrated Solutions
- Introduction to SBRA Methodology
- Exercise: application of SBRA (Scenario Based Risk Assessment) Methodology on a Construction Yard
- Case Study Resolution on the Construction and Debriefing on SBRA (Scenario Based Risk Assessment) application
- Introduction to Industrial Plant Service impact on Safety along Plant Life Cycle: Availability and indexes, Alternative Approaches, EOH, Impact of Engineering on Service and Safety, Service Inventory, Consistency and Optimization of Inspection and Revision Policies
- Service for Complex Industrial Plants

Each Operative Module includes a knowledge assessment and the attendees successfully completing each single Module receive a certificate from Genoa University. The Educational Material specific of the course is provided to each attendee



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#### **Operative Module of MIPET**





**Industrial Plant Engineering & Technologies** 

### **Objectives**

**Project Management Module** presents critical aspects related to Industrial Plant PM and provides basic concepts and methodologies in Project Management. The course provides knowledge for facing issues in Project Organization, Risk Management, Cost and Time Management, Planning & Control, Quality, HR and Communications

### **Course Attendees**

**Project Management Module** is designed for young engineers, technicians and professionals intended to operate as Project Engineers in complex Industrial Plants projects;

### **Structure and Approach**

This modules is organized as a 36 hours course to be completed in 5 days by interactive sessions with experts coming from Industry and R&D. The approach includes lecturing, case studies, exercises, experiences, RPG, competitive and cooperative simulations



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# Construction

#### **Operative Module of MIPET**





**Industrial Plant Engineering & Technologies** 

### **Course Attendees**

**Construction Module** is designed for young engineers, technicians and professionals active in Industrial Plants and dealing with Construction issues, enabling them to understand and make use of the key tools for the control and the management of the construction stage of an Industrial Plant.

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### **Objectives**

**Construction Module** presents critical aspects related to Constructions in Industrial Plant and provides basic concepts and case studies as methodologies. The course provides knowledge for facing issues in Site Management, Erection Planning, Cost and Time Control, Safety and Risks during erection and commissioning.

### **Structure and Approach**

This modules is organized as a 36 hours course to be completed in 5 days by interactive sessions with experts coming from Industry and R&D. The approach includes lecturing, case studies, exercises, experiences, RPG, competitive and cooperative simulations



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#### **MIPET Operative Modules**

#### **Project Management**

- Project Management and specific issues related to Industrial Plants
- Project Life Cycles
- Reporting & Metrics for Project Management: PMB & KPIs
- Cost and Time Management, Techniques and Methodologies for supporting planning and control
- Risk Analysis & Risk Management: Risk Source Identification, Quantification, Decisional Trees, Statistical Methods and Simulation
- Communications: Technological Solutions, Information Distribution Policies
- HR in Project Management, organizational planning, People Management
- Quality Management: methods, constraints and critical issues in Industrial Plants
- Project Management Networks and Certification Processes
- Coordination Engineering, Purchasing, Erection, Commissioning
- PM Certification, Societies and International Overview
- Role Play Game: Celebes (Cooperative Engineering Plant, Project Business Exercise and Simulation), work to be completed by coordinated teams concurrently working on a complex industrial plant under coordination of real Project Managers and operating on a distributed simulation







- Construction of Industrial Plants
  - Industrial Plant Construction from Project Start, Precommissioning, Commissioning, Closing
  - Case Studies on Project Logistics in National International Frameworks
- Interaction between Engineering and Purchasing
- Case Study on Engineering Purchasing interactions
- Managing Construction Projects on Site
- Case Studies on Construction Yard Management
- Planning and Control on Site Construction
- Case Study on Construction Yard Activities
- Safety on Érections, Heavy Transport and Heavy Lifting during Construction
- Babel Experience: competition between two teams each one divided between Site and Office on a Construction Project; the experience is devoted to outline the critical issues related to coordination/cooperation between engineering and constructions as well as aspects related to communication, human resource management and project documentation



Each Operative Module includes a knowledge assessment and the attendees successfully completing each single Module receive a certificate from Genoa University. The Educational Material specific of the course is provided to each attendee





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# Innovation for Industrial Plant



#### **Operative Module of MIPET**





**Industrial Plant Engineering & Technologies** 

### **Objectives**

Industrial Plant Innovation Module presents innovative methodologies, techniques, models presented by experts at international level able to guarantee a competitive advantage in Industrial Plant. The addresses both technical course and management issues in relation to different types of challenging problems in Sustainability, Oil and Gas, Smart Energy Management.

### **Course Attendees**

*Industrial Plant Innovation Module* is designed for young engineers, technicians and professionals intended to being updated on new Models and Innovative Methodologies to address complex Industrial Plants projects

### **Structure and Approach**

This modules is organized as a 36 hours course to be completed in 5 days by interactive sessions with experts coming from Industry and R&D. The approach includes lecturing, case studies, exercises, experiences, RPG, competitive and cooperative simulations









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# **Thematic Modules**

**Thematic** Modules are dedicated to prepare MIPET Students **Business** on **Sectors** and **Specific** Thematic Areas. Major areas include Hot Metals, Power Plants, Water Treatments. **Specific Attention is devoted** solutions. innovative to automation and autonomous systems to be integrated into industrial plants.





Iron & Steel Iron & Steel Plants. Iron & Steel Industry Processes. Iron & Steel Market. From Raw Material to Blast Furnace. Fundamentals

of Metallurgical Processes. Metal Making. Industrial Furnaces. Blast Furnaces. Iron & Steel Plants: Sinter, Pellet, Steelworks. Steel Rolling Processes & Heat Treatment. Strip Processing. Cold Milling Rolling. Roll Shops. Material Handling. Coke Plants. Flue Gas Treatment in Iron & Steel Industry. Tour to an Steel Mill.



Water Treatments Desalination and Water Treatments. Waste Water Treatment. Municipal Solid Waste Treatment: Incineration

Plants, Pyrolysis and Gasification. Case Study: MSW Gasification Plant. Desalination Plants, Heat Exchange & Plant Processes, Material Transfer and Pumping Operations, Alternative Technologies.



Power Plants The focus of this module is on Power Plants. Electrical Plants. Alternators. Boiler & Heat Echanger. Gas Turbine &

Steam Turbines. Fossil Plants & Conventional Plants. Combined Cycle Plants . Electrical Energy Distribution and Consumption . Energy Efficiency Techniques. Renewable Power Plants: Wind Solutions, Solar Plants, Hydroelectrical, etc. Power Plant Simulation & FAT. Interactive Visit to Power Plants. Fuel Storage Facilities.



Sustainability Environment and Sustainability for Industrial Plant Engineering. Environmental Control

Techniques . LCA Sustainable Engineering. Green Technologies. Design for Environment and Sustainability. Modelling Industrial Ecology. Urban Solid Waste Treatments. Case Study: Gasification Plant MOSES: Computer Simulation on Comprehensive Scenario involving negotiation between Authorities and Investors respect a new Large Plant Project.



Processes & Machines Processes & Machines in Industrial Plants. Fluid Dynamics & Heat Exchanges in Industrial

Plants. Condition Monitoring, Diagnostics, Non destructive Controls and Plant Maintenance. Vibration Analysis, Modal Analysis, FEM for Vibration Analysis, TPA, Durability. Mission synthesis, Acoustic Intensity and Holography. Simulation and Dynamic Analysis of Plants and Machines. Plant Management & Maintenance. Plant Service. Safety & Security. Examples: Company Organization within a Power Plant Producer and in a Steel Mill.



Combustion Combustion Technology. Fluid Dynamics & Heat Exchanges in Industrial Plants. Operational Procedures in

Combustion. Combustion Models for Industrial Plants. Overview on Heating Furnaces. Technological Trends in Industrial Furnaces. Flue Gases & Treatments. Example: Hot Treatment Furnace Design.

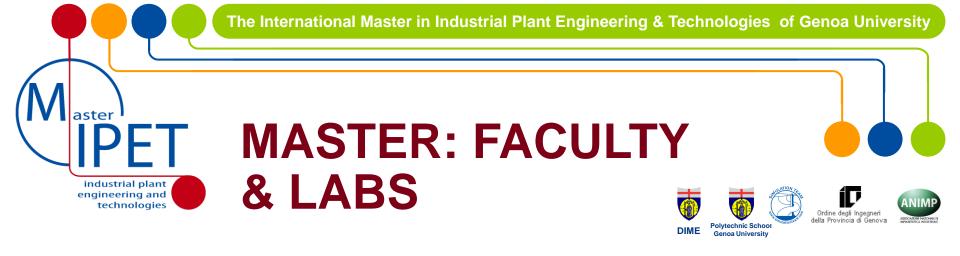


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The Master Teachers are an effective mix of Academic & Industrial Experts

- Genoa University Professors
- Italian Top-Quality University Faculty
- International Professors & Experts
- Top Experts and Executives from Plant Industry
- Professional Experts from Institutes and Organizations

All the MIPET Sponsor Companies have the possibility of being actively involved in Lecturing, driving Project Works, providing Case Studies, developing Class Exercises and offering Internships & Project Works.

MIPET includes experiences in up-to-date R&D Labs (e.g. Virtual Caves, Simulation, tenve Combustion, Smart Grid) as well as visits to Industrial Plants tutored by Experts







This Master is coordinated by a Technical Scientific Committee composed by the following members:

- Agostino Bruzzone (Full Professor of Industrial Plants in DIME, MIPET President)
- Matteo Agresta (Simulation Team University of Genoa)
- Giorgio Cannata (Professor of Automation, DIST)
- Micaela Caserza (MAILAB University of Genoa)
- Marco Del Borghi (Full Professor of Chemical Processes, DICHEP)
- Carla Gambaro (Professor of Technologies, DICHEP)
- Pietro Giribone (Full Professor Industrial Plants, DIME)
- Aleramo Lucifredi (Full Professor of Applied Mechanics, DIME)
- Andrea Reverberi (Professor of Chemical Processes, DICHEP)
- Luca Tagliafico (Full Professor of Thermo-Energy, DIME)
- Angela Taramasso (Professor of Civil Eng., DIST)
- Flavio Tonelli (Professor of Industrial Plants, DIME)

The Master Support Services are provided by: -Simulation Team, MITIM, DIME, Polytechnic School

- Maurizio Barabino (ABB Italia)
- Giovanni De Marchi (Consultant)
  Alessandro Bongiovi` (ABB)
- Ferruccio Cerruti (ETEA)
- Enrico Mozzi (Danieli Centro Combustion)
- Enrico Gastaldo (Prisma Impianti)
- Felice Lombardo (Ordine degli Ingegneri )
- Enrico Malfa (Tenova)
- Giorgio Migliorini (Fisia Italimpianti Gruppo Impregilo)
- Giorgio Minestrini (Stara Glass)
- Carlo Raggio (Consultant)
- Massimo Romairone (Ansaldo)
- Kirill Sinelshchikov (Simulation Team)
- Stefano Sadowski (RINA)







# SPONSOR COMPANIES

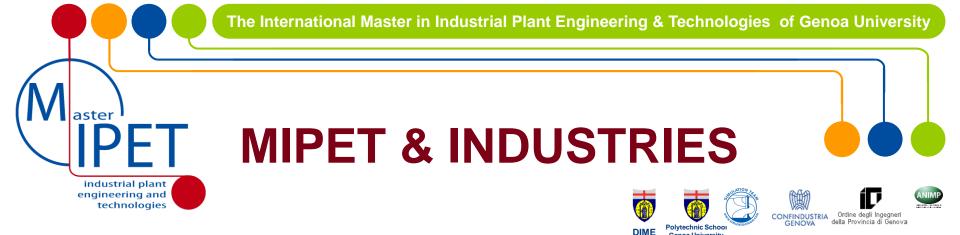
# **BENEFITS FOR SPONSORS**

- Active role in selection processes of Master Candidates
- Opportunity for deep evaluation and selection of Master Attendees during Selection, Educational Modules, Internship and Project Work
- Opportunity to improve the skills of Engineers & Technicians already employed
- Free Seats and Discounted Rates for registering into Operative Modules
- Sharing High Quality Education Costs within a Highly Qualified Community
- Cultural Interaction with all different Actors of this initiative including Industrial Companies, University and Local Institutions.
- Joint University-Industry stimulation of Interest and Research Projects
  on subjects related to Plant Engineering & Technologies
- Development of a Fertile Background in Industrial Plant, Global Engineering and Construction devoted to enhance the competitiveness of the whole system.



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## HOW A COMPANY BECOMES SPONSOR OF MIPET

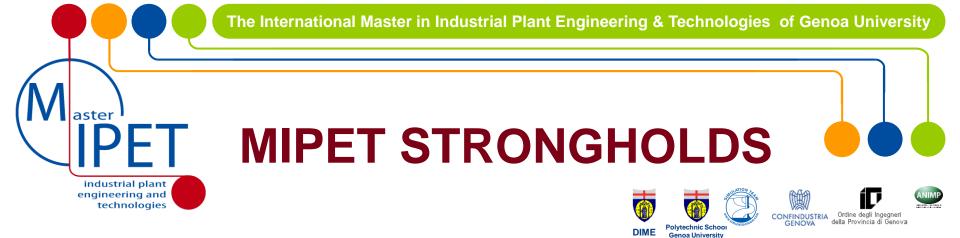
- Subscribing an Agreement that includes an annual fee and the commitment to ٠ provide resources (i.e. 15 hours of experts for contributions to educational modules to be developed under Technical Scientific Committee Coordination).
- Contributing with its requirements & preferences respect to the characteristics of Master Attendees to be selected and on specific topics of the Program
- **Registering its employees to MIPET Program or to specific Operative Modules**
- **Offering Internships to Master Program Students**
- **Providing Expertise as well as Real Case Studies**

**Confirmed Main** Sponsors MIPET XIII Edition





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Excellence is the main goal of MIPET; in facts MIPET Partners are emphasizing following aspects:

- Strong commitment of all Partners in promoting MIPET at the National and the International level.
- International Approach in MIPET structure by involving teachers from foreign Excellence Centers and selecting engineers from other Countries.
- Introducing Innovative contents, especially through the Operative Modules, related to the Plant Engineering & Technologies





The ongoing cooperation among partners and sponsors aims at continuous improvement to guarantee MIPET Top Quality Level:

- All Lectures and Material are in English
- Language Course for Attendees (Technical English plus others courses: e.g. Italian, Spanish)
- Agreements with Offices of Leading Companies for Cooperation and Enhancement of their top level engineers by involving them in MIPET Program
- Agreements with International Schools active in Plant Engineering and Technologies for Exchanging Trainers and Students
- Development of a Plant Engineering Reference Text
- High Involvement of Foreign Students (e.g. India, Brazil, Iran, Russia)
- Special Benefits for Sponsors (i.e. Operative & Thematic Modules)



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# References

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#### Dott.ssa Marina Massei **DIME**, University of Genoa

Prof. Agostino G. Bruzzone DIME, University of Genoa via Opera Pia 15, 16145 Genova

Email agostino@itim.unige.it

URL www.itim.unige.it

Via Cadorna, 17100 Savona, Italy Email massei@itim.unige.it URL www.itim.unige.it/mipet



Prof. A.G.Bruzzone

**MIPET President** 

#### Ing. Kirill Sinelshchikov Simulation Team, DIME

Via Opera Pia 15, 16145 Genova, Italy Tel +39 346 8289 012 - Fax +39 019 2302 289. Email kirill@simulationteam.com URL www.itim.unige.it/mipet





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