

L'Industria incontra Giovani Ingegneri: Sfide e Opportunità per Giovani Ingegneri e Aziende

Companies Involved in
this edition:

ABB

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CENTRO COMBUSTION

FISIA ITALIMPIANTI
Gruppo MIREGLO

PAUL WURTH

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CONSIST TECHNOLOGIES IMPARTITION

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*Gli interessati a
Colloqui sono invitati a
Registrarsi
sulle Liste di ciascuna
Aziende all'ingresso*

INVITO A TUTTI GLI STUDENTI DI INGEGNERIA

Meeting Program

26 marzo, 2013, 10:00 am - 17:00

Piano Nobile, Villa Cambiaso

via Montallegro 1, 16145 Genova, Italy

www.itim.unige.it/cs/plants/mipet4/march2013.html

10:00	Benvenuto Prof. Agostino G. Bruzzone
10:10	Eccellenza e Competitività Oggi
10:30	Responsabili di Aziende Leader a livello Mondiale evidenziano le Sfide e le Opportunità per Aziende e Giovani
11:45	Incontro diretto con le Aziende e Colloqui Preliminari
13:00	Prosecuzione dei colloqui e campus interview
17:00	Prosecuzione dei colloqui e campus interview



Accesso gratuito e libero, per ulteriori informazioni,
prego contattare mipet@simulationteam.com
www.itim.unige.it/cs/plants/mipet4/march2013.html

Industrial Plant Business Sector meets with Young Engineers: Challenges and Opportunities for Young Engineers & Companies

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www.itim.unige.it/mipet

**ALL
ENGINEERING
STUDENTS
ARE INVITED**

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- | | |
|--------------|--|
| 10:00 | Welcome Prof. Agostino G. Bruzzone |
| 10:10 | Excellence and Competitiveness Today |
| 10:30 | Managers from International Major Companies
on Student/Company Opportunities & Challenges |
| 11:45 | Meeting with Companies & Campus Interviewing |
| 13:00 | Campus Interview |
| 17:00 | Closure |

www.itim.unige.it/cs/plants/mipet4/march2013.html



*Free Access, for additional information,
please contact: mipet@simulationteam.com
www.itim.unige.it/cs/plants/mipet4/march2013.html*

L'Industria Impiantistica incontra Giovani Ingegneri: Sfide e Opportunità per Aziende e Giovani Ingegneri

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Prof. Agostino G. Bruzzone

Welcome



Genoa University, Polytechnic School & Engineering Faculty

The University of Genoa is one of the oldest in Italy and in the World (founded in 1471 AD), it is located in middle of Italian Riviera.

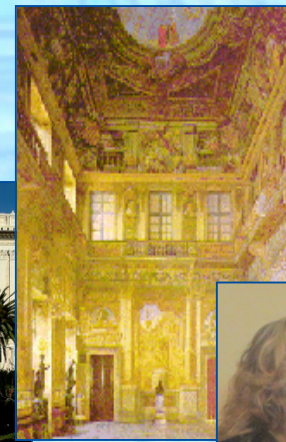
The students are about 40,000 (about 8,000 new entries), and the Engineering Departments involve around 7,500 students distributed among Genoa Locations and two External Sites: Savona Campus and La Spezia Area

Recently the Polytechnic School was established combining Engineering Faculty and Architecture in order to reinforce the vocation of Genoa University to be an International Leader in Innovative Technologies in a wide spectrum of applications

For further Information about the Engineering & University of Genoa:



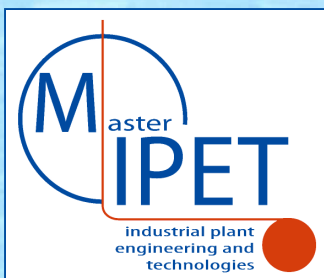
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Prof. Patrizia Perego, Vice Dean



CONFINDUSTRIA Genova



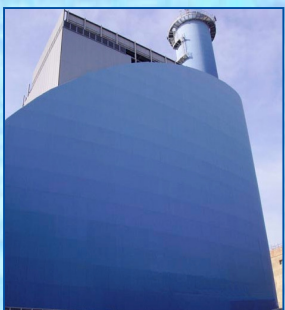
**CONFINDUSTRIA
Genova
supports actively
the MIPET since
and promote
these initiatives
among Industrial
Community**

Crocco, Confindustria



Intellectual Capital for Future of Engineering

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

A Two-Speed World

The crisis pointed out by Media is very relative in term of Geographic/Temporal Coordinates for Instance:

- **Automotive Vehicles: +19% Worldwide from 2008 to 2012**
- **Shipbuilding:**
Europe from 8% of World Market to 3% (-60%)
2011: 200 Ship in Construction just in Shanghai Area

GDP:

2012:	China 9.5%	Italy 1.3%	Germany 2.0%
	USA 2.8%	Qatar 7.1%	Indonesia 6.5%
	Russia 4.5%	Angola 10.4%	Nigeria 6.5%
	India 7.8%	Iraq 12.5%	
	Brazil 4.1%	Chile 4.9%	
	Vietnam 6.7%	Malaysia 5.2%	
	World 4.5%	Europe 1.7%	



Commercial Vehicle Production 2008-2012			
Rk	Country	Δ Vehicles	(%)
1	USA	1,306,131	27%
2	China	1,186,715	46%
3	Canada	536,629	61%
4	Thailand	532,987	54%
5	India	373,421	77%
6	Mexico	241,481	25%
7	Indonesia	152,851	90%
8	Argentina	69,269	35%
9	Brazil	48,666	7%
10	Iran	30,550	28%
11	South Africa	22,710	9%

Car Production 2008-2012			
Rk	Country	Δ Cars	(%)
1	China	8,785,913	130%
2	India	1,439,445	78%
3	South Korea	716,611	21%
4	Mexico	592,549	49%
5	Thailand	556,314	139%
6	Russia	499,360	34%
7	USA	329,212	9%
8	Slovakia	324,224	56%
9	Indonesia	312,078	72%
10	Czech Rep.	237,728	25%
11	Taiwan	139,329	100%
12	Argentina	98,140	25%
13	Romania	95,500	41%
14	Brazil	77,975	3%
15	Others	62,016	17%
16	Malaysia	25,888	5%
17	UK	18,287	1%
18	Serbia	409	4%
19	Austria	-1,836	-1%
20	Finland	-14,619	-83%
21	Portugal	-16,507	-12%
22	Netherlands	-31,223	-53%
23	Egypt	-35,605	-49%
24	Turkey	-44,907	-7%
25	South Africa	-46,251	-14%
26	Uzbekistan	-50,059	-26%
27	Slovenia	-53,397	-30%
28	Sweden	-89,473	-35%
29	Iran	-92,870	-10%
30	Australia	-107,110	-38%
31	Hungary	-126,919	-37%
32	Germany	-143,574	-3%
33	Canada	-155,136	-13%
34	Belgium	-172,927	-25%
35	Italy	-262,404	-40%
36	Poland	-302,000	-36%
37	Ukraine	-331,112	-83%
38	Spain	-403,369	-21%
39	France	-463,121	-22%
40	Japan	-1,373,924	-14%
	Total	10,343,424	20%

Global 500 Companies in World during 2012

*TOP COMPANIES Worldwide in term of World Sales
Percentage 2012 vs. 2010*

Main Companies worldwide have serious challenges in 2012 therefore some result are provided:

Royal Dutch Shell	Revenues +28%	Profits 30'918	+53%	1	World Ranking (Previously 2)
Wal-Mart	Revenues +6%	Profits 15'669	-4.2%	3	World Ranking (Previously 1)
Sinopec	Revenues +37%	Profits 9'452	+23%	5	World Ranking (Previously 5)
China Nat.Petr.	Revenues +46%	Profits 16'317	+13%	6	World Ranking (Previously 6)
State Grid	Revenues +14%	Profits 5'678	+24%	7	World Ranking (Previously 7)
Volkswagen	Revenues +31%	Profits 21'425	+136%	12	World Ranking (Previously 13)
GazProm	Revenues +33%	Profits 44'460	+39%	15	World Ranking (Previously 35)
General Electric	Revenues -3%	Profits 14'151	+21%	22	World Ranking (Previously 16)



Global 500 Source 2012 Values in \$ millions

Global 500 Companies in Italy: Challenges and Opportunities

Companies, even in Italy, have to face the challenges, therefore some results are interesting and there are opportunities everywhere and every time if decision making is effective and efficient:

ENI	Revenues	+16%	Profits	9.5 GUSD	+14%	17th World Company (previously 23rd)
EXOR/FIAT	Revenues	+50%	Profits	0.7 GUSD	+286%	45th World Company (previously 53rd)
Generali	Revenues	-6.3	Profits	1.2 GUSD	-47%	48th World Company (previously 33rd)
ENEL	Revenues	+13%	Profits	5.7 GUSD	-1%	52th World Company (previously 56th)
UNICREDIT	Revenues	+7%	Profits	-12.8 GUSD	-830%	164th World Company (previously 154th)
Intesa S.Paolo	Revenues	+12%	Profits	-11.3 GUSD	-417%	193th World Company (previously 192nd)
Telecom	Revenues	+14%	Profits	-6.5 GUSD	-259%	244th World Company (previously 236th)
Poste Italiane	Revenues	+4%	Profits	1.2 GUSD	-1%	361st World Company (previously 329th)
Finmeccanica	Revenues	-3%	Profits	-3.2 GUSD	-600%	443rd World Company (previously 380th)



TOP Italian Companies Worldwide in term of World Sales

Global 500 Source 2012

Human Capital is becoming Even more Important

Engineering is providing an unique opportunity to improve the Capabilities and Understanding of high qualified people: Scientists, Researchers, Technicians and Engineers





Impiantistica e Ingegneria a Genova

In Genoa University several groups are active in Industrial Plant Engineering; for instance the Simulation Team MITIM DIME resulted as evolution of the Institute of Technology and Industrial Plant Engineering & Management (ITIM) that was focused on these issues since '60; DIST, DICHEP, DINAEL and other Engineering Departments are also active on these subjects. The Genoa University is involved in several R&D activities on Plant and Process Engineering and also in Undergraduate, Postgraduate and Continuous Education on this area. Simulation Team MITIM DIME for instance co-operates actively with major Excellence Centers World-Wide.





Simulation Team MITIM DIME

The Simulation Team - MITIM DIME of *Genoa University* carries out many industrial projects in cooperation with the large corporations and Small and Medium sized Enterprises; some example of recent industrial simulation project are following:



**ENI
Group**

**Fleet Management Planning & Scheduling
Chemical Plant Logistics Optimization**



Ansaldo

**Plant Service Management
and Optimization**



**LAMCE
Petrobras**

**Oil Platform Simulation
and Augmented Reality**



EDA

**Decision Support for
Country Reconstruction Activity Planning**



Cetena

**Simulation for Life Cycle Assessment
of New Vessels**



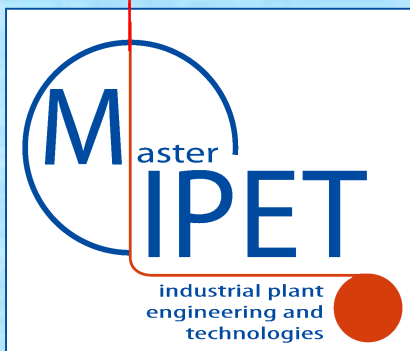
Fincantieri



Members of MISS are appointed in several positions in simulation community such as:

- General Director M&S Net (34 M&S Centers Worldwide)
- President Simulation Team (20 Centers Worldwide)
- Associate Vice President of SCS and Chairman of Technical Chapter
- Member of NATO SAS, MSG, and NIAG





MIPET

www.itim.unige.it/mipet



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 Industrial Plants Technical Issues, with special attention to Engineering. MIPET Master Program Excellence is based on the strong cooperation between Academic and Technical Experts coming from Leading Universities and Companies operating in this area with special attention to Engineering and Construction in Power Generation, Iron & Steel and Environment.

Sponsors



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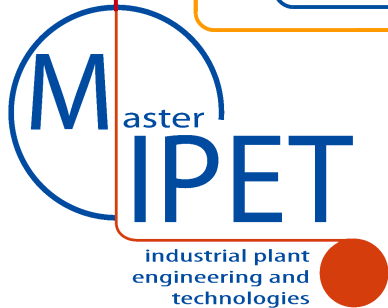
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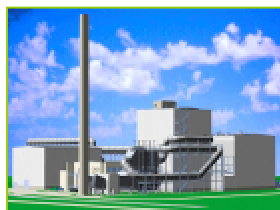
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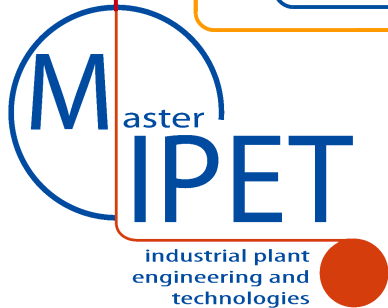
tenova



WHO SHOULD ATTEND

- Young Engineers with strong potential and technical background
- International Excellent Students of Engineering Departments from all around the world
- 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 Master Program such as Project Management, Constructions, Standards and Regulations, Safety, Security & Risks

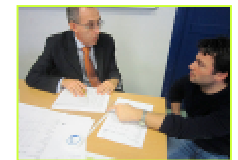
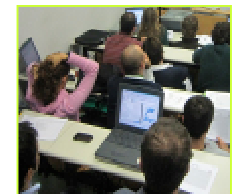
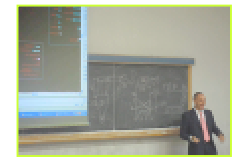




MIPET ADDED VALUE

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
- Contacts and visibility to major E&C* Companies and EPC** Contractors (EPC) operating at International and National level.
- Developing Human Potential of the attendees by training and improving their Individual and Team Working capabilities.



Prof. A.G.Bruzzone
MIPET Director

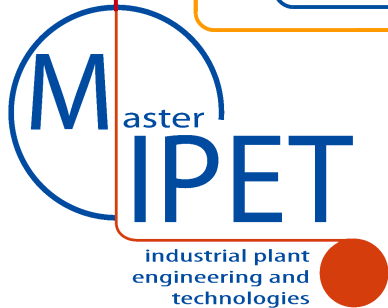
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* E&C Engineering & Contracting

** EPC Engineering, Procurement & Construction



GENERAL PROGRAM



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, Quality Assurance etc.)
- Thematic Modules on Specific Plant Sectors (e.g. Power, Iron and Steel, Environment)
- 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.



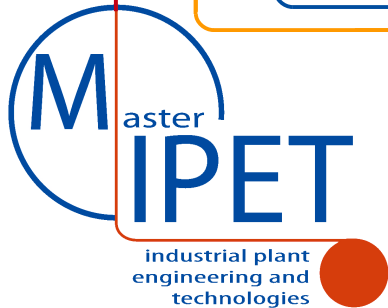
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MODULES



Educational Module Topics

Basic Modules

80 hours

Fundamental Concepts related to Industrial Plants Projects

Fundamentals of Financial Analysis for Industrial Plants

Processes Engineering and Components in Industrial Plants

Design and Engineering for Industrial Plant Systems

Material Technology, Mechanical Design and Industrial Plants

Automation in Industrial Plants

Software Systems for Supporting Industrial Plant Design & Evaluation

Operative Modules

180 hours

Standards & Regulations

Project Management

Construction

Safety & Risks

R&D in Industrial Plants

M&S in Industrial Plants

Comm. & Team Building



Thematic Modules

160 hours

Power Plants

Iron & Steel Plants

Plants for Environment

Processes & Machines in Industrial Plants

Desalination & Water Treatments

Environment & Sustainability for Industrial Plant Engineering

MIPET Other Modules
English, Chinese, Italian, Orientation

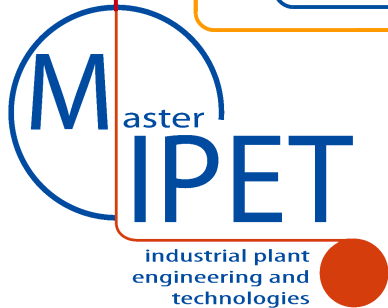


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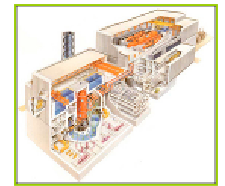


SPONSOR COMPANIES



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
- Opportunities to improve the skills of Engineers & Technicians already employed
- Free Seats and Discounted Rates for registering into the Operative Modules
- Sharing High Quality Education Costs within a Specific Qualified Community
- Cultural Interaction among the different Actors of this initiative: Industrial Companies, University and Institutions
- Active Role free of cost into Student Meetings, Campus Interview and other Initiatives organized by MIPET
- Joint University-Industry stimulation of interest and research projects on subjects related to plant engineering.
- Development of a Fertile Background in Industrial Plant, Global Engineering and Construction devoted to enhance the competitiveness of the whole system.
- Visibility on Media and Promotional Initiatives



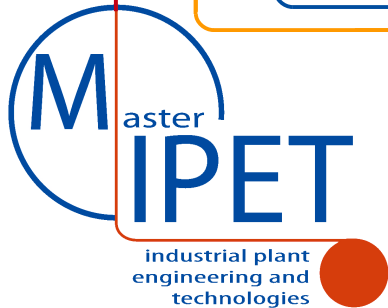
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MIPET & INDUSTRIES



HOW A COMPANY BECOMES SPONSOR OF MIPET

- Subscribing an Agreement that includes an annual fee and the commitment to provide resources (i.e. 15 hours of experts for specific contributions to educational modules to be developed under Technical Scientific Committee Coordination).
- Providing information about its requirements and preferences with respect to the characteristics of Master Attendees to be selected.
- Getting Benefits of Free Seats and discounts on MIPET Operative Modules for its Employers and/or Customers
- Offering Internships to Master Program Students
- Providing Expertise as well as Real Case Studies



Sponsors MIPET-4th Edition



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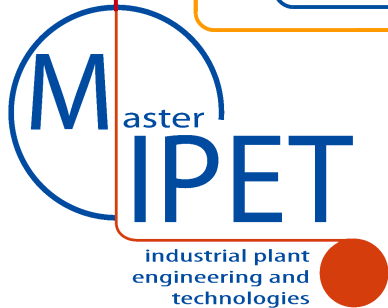


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MIPET Director

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MIPET STRONGHOLDS



Excellence is the main goal of MIPET; in fact MIPET Partners agreed to strengthen the 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 Industry and Academia coming from International Excellence Centers and selecting excellent engineers from other Countries.***
- ***Introducing new contents, especially through the Operative Modules, related to the Plant Engineering & Technologies.***

Sponsors MIPET-4th Edition



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Gruppo IMPREGILO



Prof. A.G.Bruzzone
MIPET Director

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Companies interested in Human Capital & Complex System Engineering



ABB: leader in Energy and Automation



Power
Products



Power
Systems



Discrete
Automation
and Motion



Low Voltage
Products



Process
Automation

- Electricals, controls and instrumentation for power generation and industrial processes
- Power transmission
- Distribution solutions
- Low-voltage products
- Motors and drives
- Intelligent building systems
- Robots and robot systems
- Services to improve customers productivity and reliability



- **Leading-edge technology:** *ABB brand is technology-driven, systematic, precise , strong.*
- **Inclusive:** *ABB brand is open, respectful and multi-cultural.*
- **Passionate:** *ABB brand is commitment-driven, inventive and forward-looking.*

GENOVA, 26 Aprile 2013

MIPET - ABB Power System Division & UNIGE



DANIELI CENTRO COMBUSTION



Roberto Bertuzzi, HR - Cesare Laviosa, Operations

FISIA ITALIMPIANTI è una società appartenente al Gruppo **IMPREGILO** primo general contractor in Italia e tra i principali gruppi di costruzione a livello internazionale, attivo nel settore della realizzazione di grandi opere infrastrutturali, nel settore delle concessioni e nel settore impiantistico.

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26 PW entities in 18 countries, totalling about 1600 people, mostly holding a university degree. PW Italia, employing 208 people based in Genoa (65 hired in the last 4 years), is a prominent member of this group with its own long term tradition.



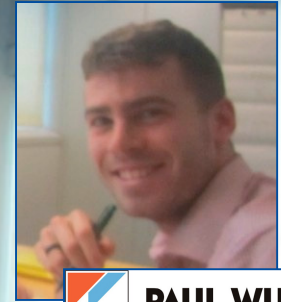
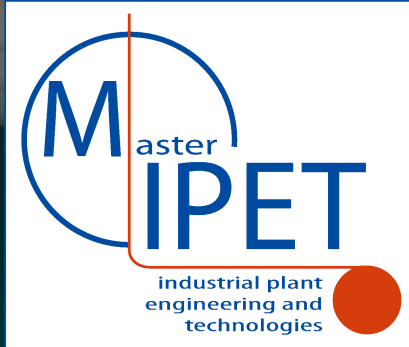
Prisma Impianti S.p.A. è un'azienda leader nella fornitura di impianti "chiavi in mano" o EPC (Engineering, Procurement, Construction), in particolare nell'ambito dei **sistemi di Automazione per Processi Industriali**. Inoltre, grazie ad un profondo know-how sviluppato negli anni, Prisma Impianti ricopre un ruolo fondamentale nel **revamping** di impianti esistenti riguardo alla parte *meccanica, elettrostrumentale, automazione e controllo*.

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Automation and Electrical Systems for a Hot-Dip Galvanizing Line




Carlo Raggio, Director Research and Technology, Laura Lippi, HR



PAUL WURTH



Stefano Magnani, PW, MIPET Alumnus



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Pier 400, Los Angeles

Elisabetta Tiziano, Business Process Manager


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ANNULLATO PUNTUALE	PARTENZA	DESTINAZIONE
●	08:52	ROMA
●	09:12	IL CAIRO
●	09:15	ISTANBUL
●	09:17	MILANO
●	09:38	ATENE
●	10:02	ZAGABRIA
●	10:07	NAPOLI
●	10:35	BELGRADO

BOMBARDIER
the evolution of mobility

The monitor displays a map of Europe with train routes, a waveform graph, a bar chart, and icons for a train, a document, gears, a bar chart, a telephone, and a wrench. It also shows a person working at a computer and a person working on a train engine.

Massimo Romairone, Head of Engineering Italy & Mediterranean Region, Emma Downing, HR



FIP

**FORMATURA
INIEZIONE
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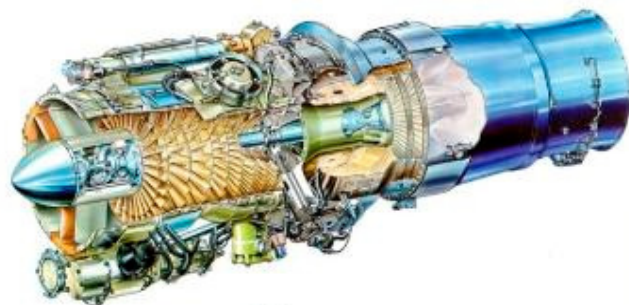
Dal 1954 FIP produce valvole e raccordi in materiali termoplastici quali U-PVC, PP-H, PVC-C, PVDF, che trovano ampio impiego negli impianti per il trasporto di fluidi in pressione.

I prodotti FIP racchiudono oltre 50 anni di esperienza e testimoniano una costante ricerca di innovazione.



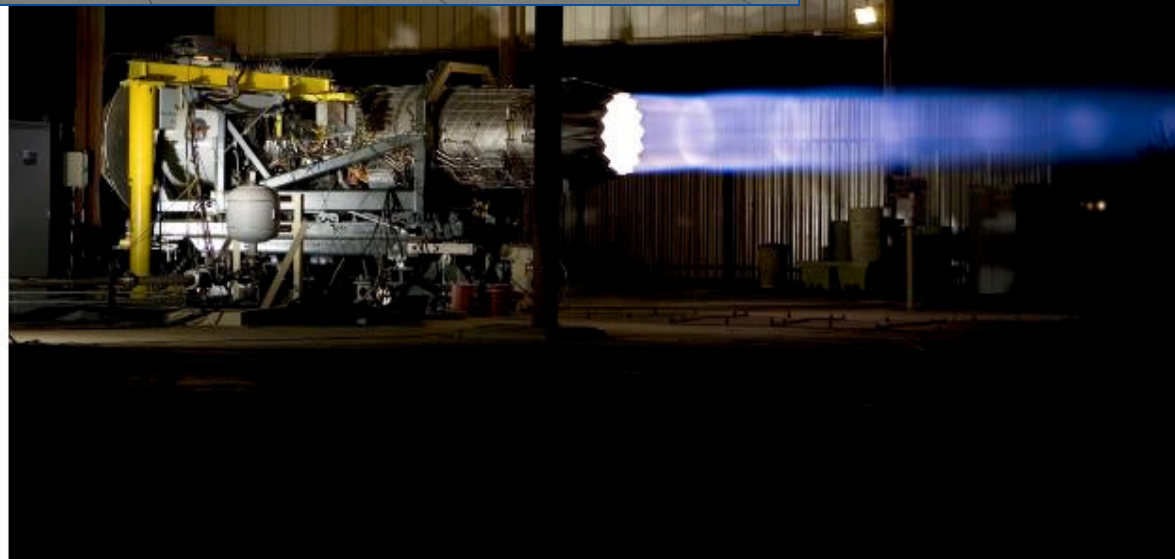


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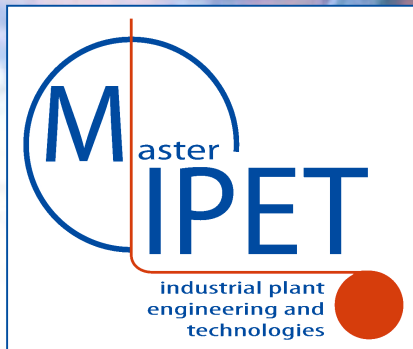


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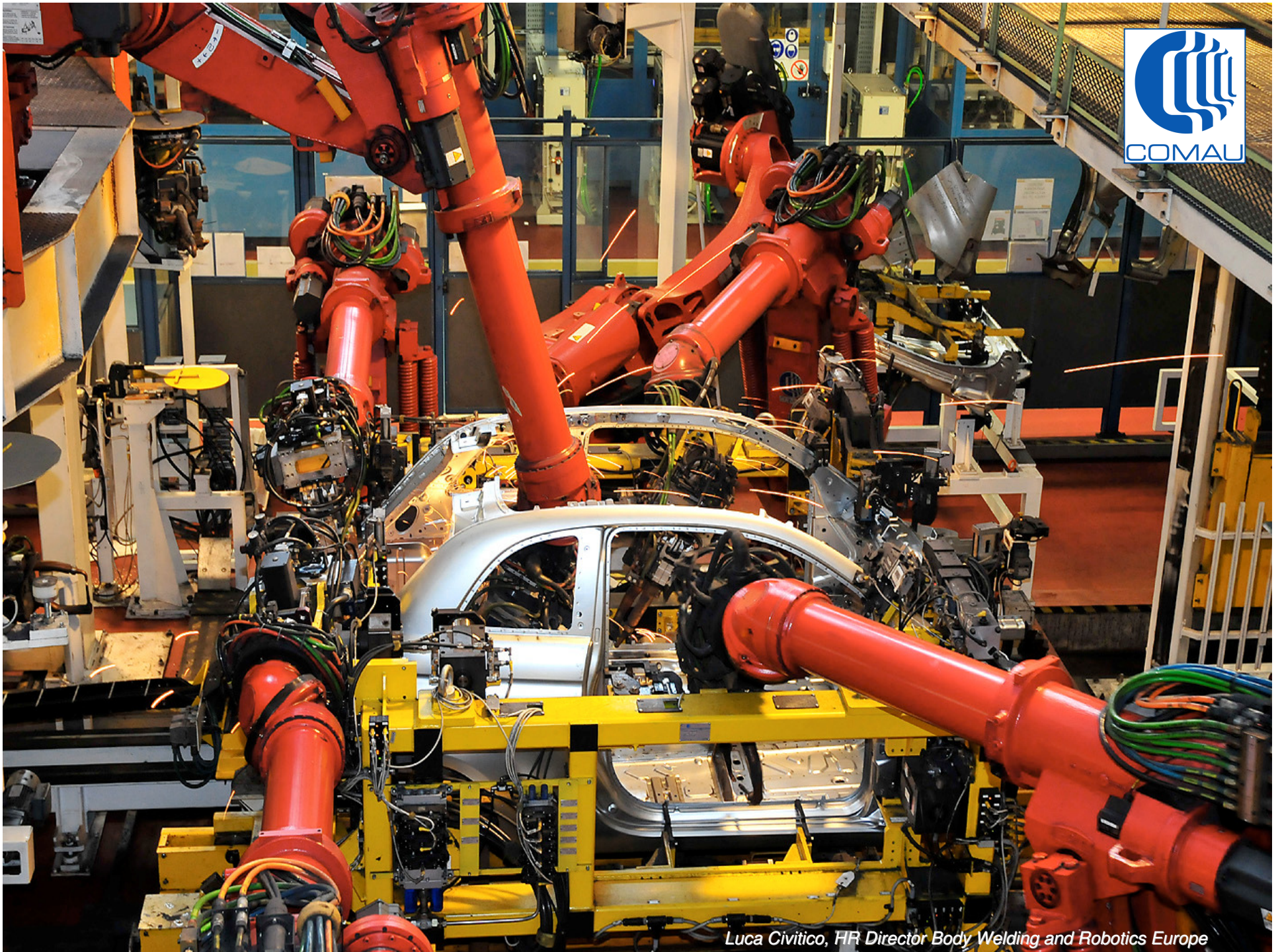




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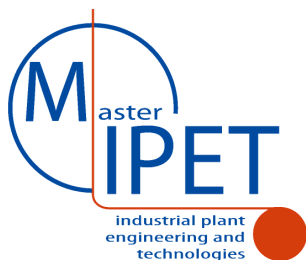
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Luca Civitico, HR Director Body Welding and Robotics Europe



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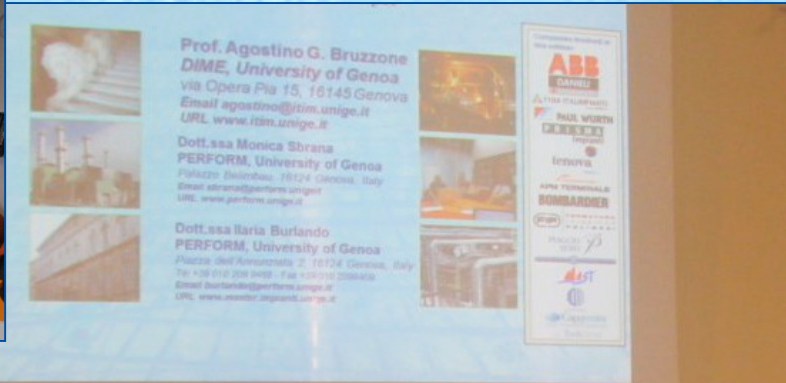
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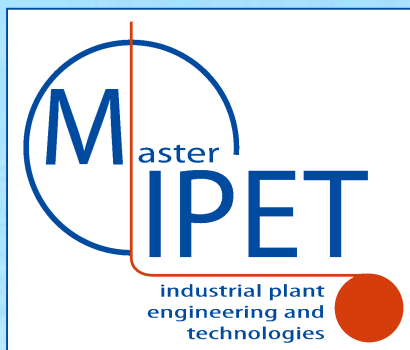
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... and Interviewing



References

mipet@itim.unige.it

www.itim.unige.it/mipet



Prof. Agostino G. Bruzzone
DIME, University of Genoa
 via Opera Pia 15, 16145 Genova
 Email agostino@itim.unige.it
 URL www.itim.unige.it



Dott.ssa Monica Sbrana
PERFORM, University of Genoa
 Palazzo Belimbau, 16124 Genova, Italy
 Email sbrana@perform.unige.it
 URL www.perform.unige.it



Dott.ssa Ilaria Burlando
PERFORM, University of Genoa
 Piazza dell'Annunziata 2, 16124 Genova, Italy
 Tel +39 010 209 9466 - Fax +39 010 2099469
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