www.itim.unige.it/mipet

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

Companies Involved in Current Edition:

ABB
DANIELI CENTRO COMBUSTION
PAUL WURTH
PRISMA Impianti
verallia
tenova
BOMBARDIER
FIP FORMATURA INIEZIONE POLIMERI
FOSTER WHEELER
D'APPOLONIA
RINA GROUP
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MAST
ToolsGroup
INFINITY TECHSOLUTIONS

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

INVITO A TUTTI GLI STUDENTI DI INGEGNERIA

Meeting Program www.itim.unige.it/cs/plants/mipet4/october2013.html

22 ottobre, 2013, 10:00 am - 18:00
Piano Nobile, Villa Cambiaso
via Montallegro 1, 16145 Genova, Italy

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
18:00	Prosecuzione dei colloqui e campus interview

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www.itim.unige.it/cs/plants/mipet4/october2013.html

Industrial Plant Business Sector meets with Young Engineers:

Challenges and Opportunities for Young Engineers & Companies

Companies Involved in Current Edition:

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People interested in Campus Interviews are invited to register on the Lists of each Company at the Entrance

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ALL ENGINEERING STUDENTS ARE INVITED

Meeting Program

www.itim.unige.it/cs/plants/mipet4/october2013.html

October 22, 2013, 10:00 am - 18:00
Piano Nobile, Villa Cambiaso
via Montallegro 1, 16145 Genova, Italy

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
18:00	Closure

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L'Industria Impiantistica incontra Giovani Ingegneri:

Sfide e Opportunità per Aziende e Giovani Ingegneri

www.itim.unige.it/mipet

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Welcome

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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:

www.itim.unige.it
www.ingegneria.unige.it
www.unige.it

Prof.Patrizia Perego, Vice Dean

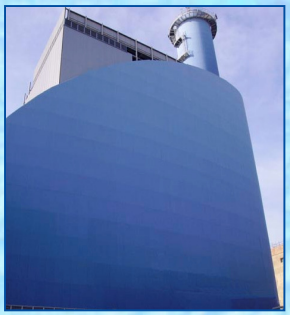
CONFINDUSTRIA Genova

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

They Came from Outer World

Top Companies are used to accept CEO from Foreign Countries based on their capabilities, with an evident Globalization

PepsiCo, USA
Revenues 65.5 bUSD
Profits 6.2 bUSD
Indra Nooyi, India

Coca-Cola, USA
Revenues 48.1 bUSD
Profits 9.0 bUSD
Muhtar Kent, Turkey

Nissan, Japan
Revenues 22.7 bUSD
Profits 1.1 bUSD
Carlos Ghosn, Brazil

Dior, France
Revenues 40.9 bUSD
Profits 1.9 bUSD
Sidney Toledano, Marocco

Deutsche Bank, Germany
Revenues 68.5 bUSD
Profits 0.3 bUSD
Anshu Jain, India

Tata Motors, India
Revenues 34.5 bUSD
Profits 1.8 bUSD
Karl Slim, UK

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	-50,058	-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	-156,139	-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%**

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  - **2011: 200 Ship in Construction just in Shanghai Area**

GDP:

2013:	China	7.8%	Italy	-2.4%	Germany	0.7%
	USA	2.2%	Qatar	6.6%	Indonesia	6.2%
	Russia	3.4%	Angola	3.7%	Nigeria	6.3%
	India	6.6%	Iraq	17.5%		
	Brazil	0.9%	Chile	5.5%		
	Vietnam	14.0%	Malaysia	5.6%		
	World	3.9%	Europe	-0.2%		

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40	Japan	-1,373,924	-14%
	Total	**10,343,424**	**20%**

Global 500 Companies in World during 2013

TOP COMPANIES Worldwide in term of World Sales Percentage 2013 vs. 2011

Main Companies worldwide have serious challenges in 2013 therefore some result are provided:

Royal Dutch Shell	Revenues -0.6%	Profits	26'592	-14%	1	World Ranking (Previously 1)
Wal-Mart	Revenues +5%	Profits	16'999	+8.3%	2	World Ranking (Previously 3)
Sinopec	Revenues +14%	Profits	8'2221	-13%	4	World Ranking (Previously 5)
China Nat.Petr.	Revenues +16%	Profits	18'196	+11%	5	World Ranking (Previously 6)
State Grid	Revenues +15%	Profits	12'138	+117%	7	World Ranking (Previously 7)
Volkswagen	Revenues +12%	Profits	27'909	+30%	9	World Ranking (Previously 12)
GazProm	Revenues +2.7%	Profits	38'086	-14%	21	World Ranking (Previously 15)
General Electric	Revenues -0.5%	Profits	13'641	-3.6%	24	World Ranking (Previously 22)

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	+9.3%	Profits	10.0 GUSD	+4.9%	17 World Company (previously 17)
EXOR/FIAT	Revenues	+21%	Profits	0.5 GUSD	-27%	26 World Company (previously 45)
Generali	Revenues	+1.0	Profits	0.1 GUSD	-90%	49 World Company (previously 48)
ENEL	Revenues	-1.3%	Profits	1.1 GUSD	-80%	52 World Company (previously 52)
UNICREDIT	Revenues	-8.6%	Profits	1.1 GUSD	change	188 World Company (previously 164)
Intesa S.Paolo	Revenues	-7.3%	Profits	2.6 GUSD	change	221 World Company (previously 193)
Telecom	Revenues	-9.0%	Profits	-2.0 GUSD	1/5	281 World Company (previously 244)
Poste Italiane	Revenues	+2.5%	Profits	1.3 GUSD	+13%	368 World Company (previously 361)
Finmeccanica	Revenues	0%	Profits	-1.1 GUSD	1/3	Out of ranking

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 Fincantieri	Simulation for Life Cycle Assessment of New Vessels

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

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industrial plant engineering and technologies

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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.

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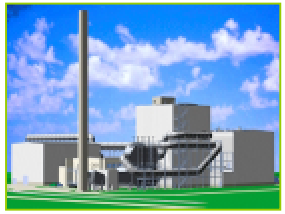
WHO SHOULD ATTEND

- 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

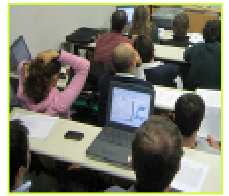


Master MIPET industrial plant engineering and technologies

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.



* *E&C Engineering & Contracting*
** *EPC Engineering, Procurement & Construction*

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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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industrial plant engineering and technologies

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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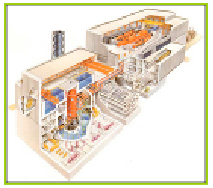

- Active role in selection processes of Master Candidates
- Opportunity for deep evaluation and selection of Master Attendees during Selection, Educational Modules, Internship and Project Work
- Opportunities to improve the skills of Engineers & Technicians already employed
- Free Seats and Discounted 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

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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

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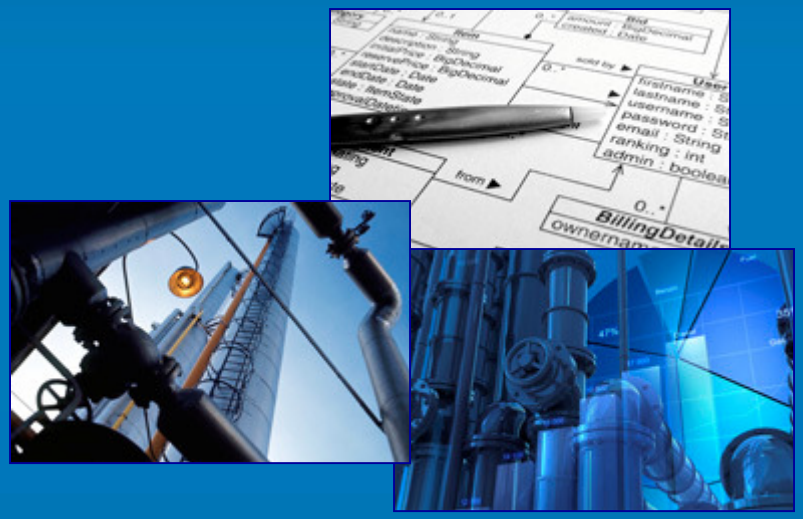

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... and Interviewing

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