



PROT. 203 DEL 09/02/2017

**MASTER DI II LIVELLO IN
SPACE TRANSPORTATION SYSTEMS: LAUNCHERS AND RE-ENTRY
VEHICLES (STS) – CODICE: 29033
VERBALE DELLA PROCEDURA PER CONFERIMENTO DI INCARICHI
INSEGNAMENTO MASTER A.A 2016/2017 - BANDO MASTER 1/2017**

La Commissione Giudicatrice nominata dal Consiglio Didattico Scientifico del Master universitario di II livello in Sistemi di Trasporto Spaziale (STS), composta da:

- Presidente (Direttore del Master): Prof. Marcello Onofri
- Prof. Mauro Valorani
- Prof. Renato Paciorri

si è riunita il giorno 07/02/2017, alle ore 17:30, presso la stanza del Prof. Marcello Onofri [primo piano – area propulsione] del Dipartimento di Ingegneria Meccanica e Aerospaziale (DIMA) della Sapienza Università di Roma, sita in Roma, in Via Eudossiana 18, per procedere alla selezione dei docenti per l'affidamento degli incarichi di insegnamento indicati nell'avviso 1/2017 pubblicato sul sito del DIMA al seguente link: http://www.dima.uniroma1.it/dima/sites/default/files/Bando%20n.%201_2017%20Master%20STS.pdf

Il Comitato Didattico Scientifico del Master di II° Livello in “Space Transportation Systems: launchers and re-entry vehicles” [codice 29033] intende conferire i seguenti incarichi d'insegnamento nell'ambito del Master STS a.a. 2016/2017 sopra citato:

SETTORI SCIENTIFICI DISCIPLINARI	CODICE	INSEGNAMENTO	DURATA (IN ORE)
ING/IND 04-05-06-07-09	002	Turbulent Combustion Modeling: advanced elements- Palazzo Baleani aula 4	7
ING/IND 04-05-06-07-09	003	Dual bell nozzles: results of recent numerical and theoretical studies on the characteristics of dual bell nozzles - Palazzo Baleani aula 4	5
ING/IND 04-05-06-07-09	004	SRM: an overview SRM Ignition Transients; Pressure and Thrust Oscillations in Solid Rocket Motors SRM Static Firing Tests and Flights Performance Analysis - Palazzo Baleani aula 4	18
ING/IND 04-05-06-07-09	005	Ground network support: requirements and operations-- Ground telemetry and tracking systems: Antenna parameters, ACU operational modes, Autotracking, Receivers, Telemetry data transfer - Palazzo Baleani Aula 4	12
ING/IND 04-05-06-07-09	006	Solid Propellant - Palazzo Baleani Aula 4	6



ING/IND 04-05-06-07-09	007	ECOSimpro/ESPSS Library: application and coursework - Palazzo Baleani Aula 4	18
ING/IND 04-05-06-07-09	008	Dual Programs: COSMO-SkyMed - Palazzo Baleani aula 4	3
ING/IND 04-05-06-07-09	0010	CFD Methods for High Speed Flows Part1 Coursework; CFD Methods for High Speed Flows Part2 Coursework	16
ING/IND 04-05-06-07-09	0011	Combustion Chamber Configurations; Preburners Injector Systems; CC Materials; CC Cooling Systems- Palazzo Baleani Aula 4	10
ING/IND 04-05-06-07-09	0012	Advanced Combustion Chambers; Thrust Chamber Life; Ignition and Ignition devices - Palazzo Baleani Aula 4	10
ING/IND 04-05-06-07-09	0013	Design of classical LRE Nozzles Advanced LRE Nozzle Concepts - Palazzo Baleani Aula 4	10
ING/IND 04-05-06-07-09	0014	Launcher design by Concurrent Design Facility - Palazzo Baleani Aula 4	6
ING/IND 04-05-06-07-09	0015	Theoretical introduction and review on rocket nozzle conception; Shock-Shock interferences and Shock Wave/Boundary Layer Basic Interactions; Experimental and physical aspects of basic aerothermodynamical phenomena for launchers and rocket nozzles - Palazzo Baleani Aula 4	18
ING/IND 04-05-06-07-09	0016	Design of Propulsion Systems: Lower Stage, Upper Stage, Attitude Control Systems, Stage separation problems - Palazzo Baleani Aula 4	9
ING/IND 04-05-06-07-09	0017	Microgravity effects for propellants management Scientific test applications - Palazzo Baleani Aula 4	9
ING/IND 04-05-06-07-09	0018	ECOSimpro/ESPSS Library; overview of the EcosimPro platform and ESPSS transient libraries ESPSS steady-state libraries and LRE design - Palazzo Baleani Aula 4	18
ING/IND 04-05-06-07-09	0020	Cavitation in cryogenic pumps	6
ING/IND 04-05-06-07-09	0021	Launchers navigation principles ctd. and Launchers guidance and control principles	10
ING/IND 04-05-06-07-09	0022	C++ Coursework- Palazzo Baleani aula 4	6
ING/IND 04-05-06-07-09	0023	Gnuplot & Latex advanced elements	6



Risultano candidati i seguenti docenti italiani interni al Dipartimento o comunque afferenti alla Facoltà di Ingegneria Civile e Industriale ed esterni:

Insegnamento	Docenti candidati
Turbulent Combustion Modeling: advanced elements- Palazzo Baleani aula 4	Ciottoli Pietro Paolo
Dual bell nozzles: results of recent numerical and theoretical studies on the characteristics of dual bell nozzles - Palazzo Baleani aula 4	Martelli Emanuele
SRM: an overview; SRM Ignition Transients; Pressure and Thrust Oscillations in Solid Rocket Motors; SRM Static Firing Tests and Flights Performance Analysis - Palazzo Baleani aula 4	-
Ground network support: requirements and operations-- Ground telemetry and tracking systems: Antenna parameters, ACU operational modes, Autotracking, Receivers, Telemetry data transfer - Palazzo Baleani Aula 4	Di Ruscio Maurizio
Solid Propellant - Palazzo Baleani Aula 4	Luciano Galfetti
ECOSimpro/ESPSS LIBRARY: application and coursework - Palazzo Baleani Aula 4	Marco Leonardi
Dual Programs: COSMO-SkyMed - Palazzo Baleani aula 4	-
CFD Methods for High Speed Flows Part1 Coursework; CFD Methods for High Speed Flows Part2 Coursework	Di Mascio Andrea
Cavitation in cryogenic pumps	D'Agostino Luca
Launchers navigation principles ctd. And Launchers guidance and control principles	-
C++ Coursework- Palazzo Baleani aula 4	Malpica Galassi Riccardo
Gnuplot & Latex advanced elements	Maria Luisa Frezzotti

Risultano candidati i seguenti docenti stranieri esterni:

Insegnamento	Docenti candidati
Combustion Chamber Configurations; PreburnersInjector Systems; CC Materials; CC Cooling Systems- Palazzo Baleani Aula 4	Immich Hans
Advanced Combustion Chambers; Thrust Chamber Life; Ignition and Ignition devices - Palazzo Baleani Aula 4	Haidn Oskar
Design of classical LRE Nozzles Advanced LRE Nozzle Concepts - Palazzo Baleani Aula 4	Frey Manuel
Launcher design by Concurrent Design Facility - Palazzo Baleani Aula 4	Leyland Penelope
Theoretical introduction and review on rocket nozzle conception; Shock- Shock interferences and Shock Wave/Boundary Layer Basic Interactions; Experimental and physical aspects of basic aerothermodynamical phenomena for launchers and rocket nozzles - Palazzo Baleani Aula 4	Reijasse Philippe
Design of Propulsion Systems: Lower Stage, Upper Stage, Attitude Control Systems, Stage separation problems - Palazzo Baleani Aula 4	Calabrò Max
Microgravity effects for propellants management Scientific test applications - Palazzo Baleani Aula 4	Gonzalez Cinca Ricard



ECOSimpro/ESPSS Library; overview of the EcosimPro platform and ESPSS transient libraries ESPSS steady-state libraries and LRE design - Palazzo Baleani Aula 4	Di Matteo Francesco
Launcher Elements of the Ariane 5 Family - Palazzo Baleani Aula 4	Koschel Wolfgang

Sulla base della valutazione dei CV e delle proposte didattiche dei candidati, la commissione seleziona i seguenti docenti per i seguenti conferimenti di incarico:

Insegnamento	Docenti candidati
Turbulent Combustion Modeling: advanced elements- Palazzo Baleani aula 4	Ciottoli Pietro Paolo
Dual bell nozzles: results of recent numerical and theoretical studies on the characteristics of dual bell nozzles - Palazzo Baleani aula 4	Martelli Emanuele
SRM: an overview SRM Ignition Transients; Pressure and Thrust Oscillations in Solid Rocket Motors SRM Static Firing Tests and Flights Performance Analysis - Palazzo Baleani aula 4	-
Ground network support: requirements and operations-- Ground telemetry and tracking systems: Antenna parameters, ACU operational modes, Autotracking, Receivers, Telemetry data transfer - Palazzo Baleani Aula 4	Di Ruscio Maurizio
Solid Propellant - Palazzo Baleani Aula 4	Luciano Galfetti
ECOSimpro/ESPSS Library: application and coursework - Palazzo Baleani Aula 4	Marco Leonardi
Dual Programs: COSMO-SkyMed - Palazzo Baleani aula 4	-
CFD Methods for High Speed Flows Part1 Coursework; CFD Methods for High Speed Flows Part2 Coursework	Di Mascio Andrea
Cavitation in cryogenic pumps	D'Agostino Luca
Launchers navigation principles ctd. And Launchers guidance and control principles	-
C++ Coursework- Palazzo Baleani aula 4	Malpica Galassi Riccardo
Gnuplot & Latex advanced elements	Maria Luisa Frezzotti
Combustion Chamber Configurations; Preburners Injector Systems; CC Materials; CC Cooling Systems- Palazzo Baleani Aula 4	Immich Hans
Advanced Combustion Chambers; Thrust Chamber Life; Ignition and Ignition devices - Palazzo Baleani Aula 4	Haidn Oskar
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Design of Propulsion Systems: Lower Stage, Upper Stage, Attitude Control Systems, Stage separation problems - Palazzo Baleani Aula 4	Calabrò Max
Microgravity effects for propellants management Scientific test applications - Palazzo Baleani Aula 4	Gonzalez Cinca Ricard
ECOSimpro/ESPSS Library; overview of the EcosimPro platform and ESPSS transient libraries ESPSS steady-state libraries and LRE design - Palazzo Baleani Aula 4	Di Matteo Francesco
Launcher Elements of the Ariane 5 Family - Palazzo Baleani Aula 4	Koschel Wolfgang

Qualora i docenti rinunciassero all'incarico di docenza, la Commissione potrà incaricare della stessa docenza il secondo docente di cui è pervenuta la candidatura (qualora presente). All'accettazione dell'incarico, il Direttore del Master procederà alla formalizzazione dell'incarico di docenza. I risultati saranno resi pubblici mediante pubblicazione nella pagina web del Dipartimento di Ingegneria meccanica e Aerospaziale, accessibile dal link:

http://www.dima.uniroma1.it/dima/bandi_categoria_tendina/conferimento-incarichi-di-insegnamento-master

I lavori si chiudono alle ore 19:30.

Letto, approvato e sottoscritto.

Roma, 7 febbraio 2017

F.to i Membri della Commissione

Prof. Marcello Onofri

Prof. Mauro Valorani

Prof. Renato Paciorri