

Un compleanno speciale

Una raccolta di foto del convegno scientifico del 9 giugno 2014 a Pisa in onore di ANTONIO GIULIETTI, in occasione del suo settantesimo compleanno



SCIENCE WITH HIGH POWER LASERS AND PLASMAS: AN INSPIRING FORWARD LOOK

Celebrating the scientific career of Antonio GIULIETTI in view of his 70th birthday!

9th June 2014, Auditorium di Palazzo BLU, Pisa, Italy

Chair: T. Ceccotti (CEA, Saclay), L.A. Gizzi (INO-CNR)

Organized by F. Baffigi, S. Grassini, A. Rossi

Istituto Nazionale di Ottica, CNR, Pisa

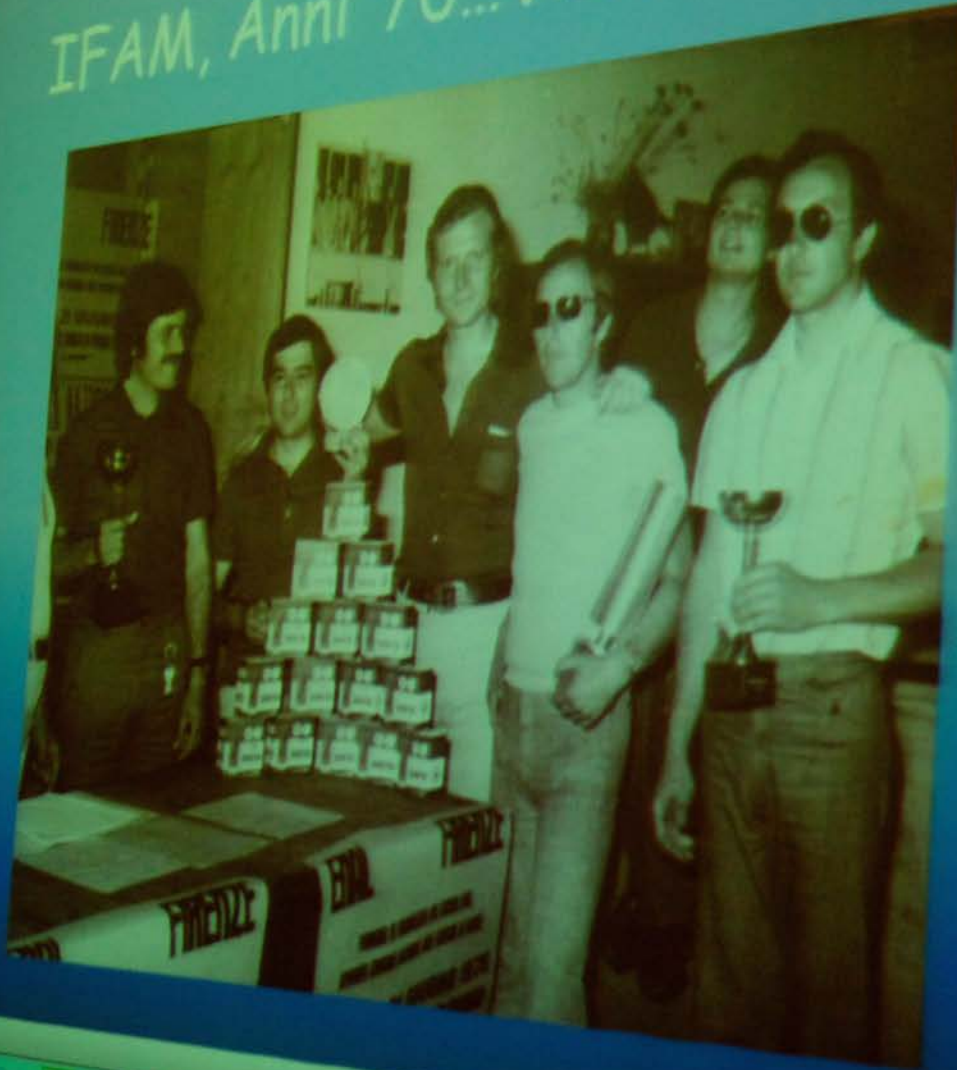








IFAM, Anni '70... Via del Giardino





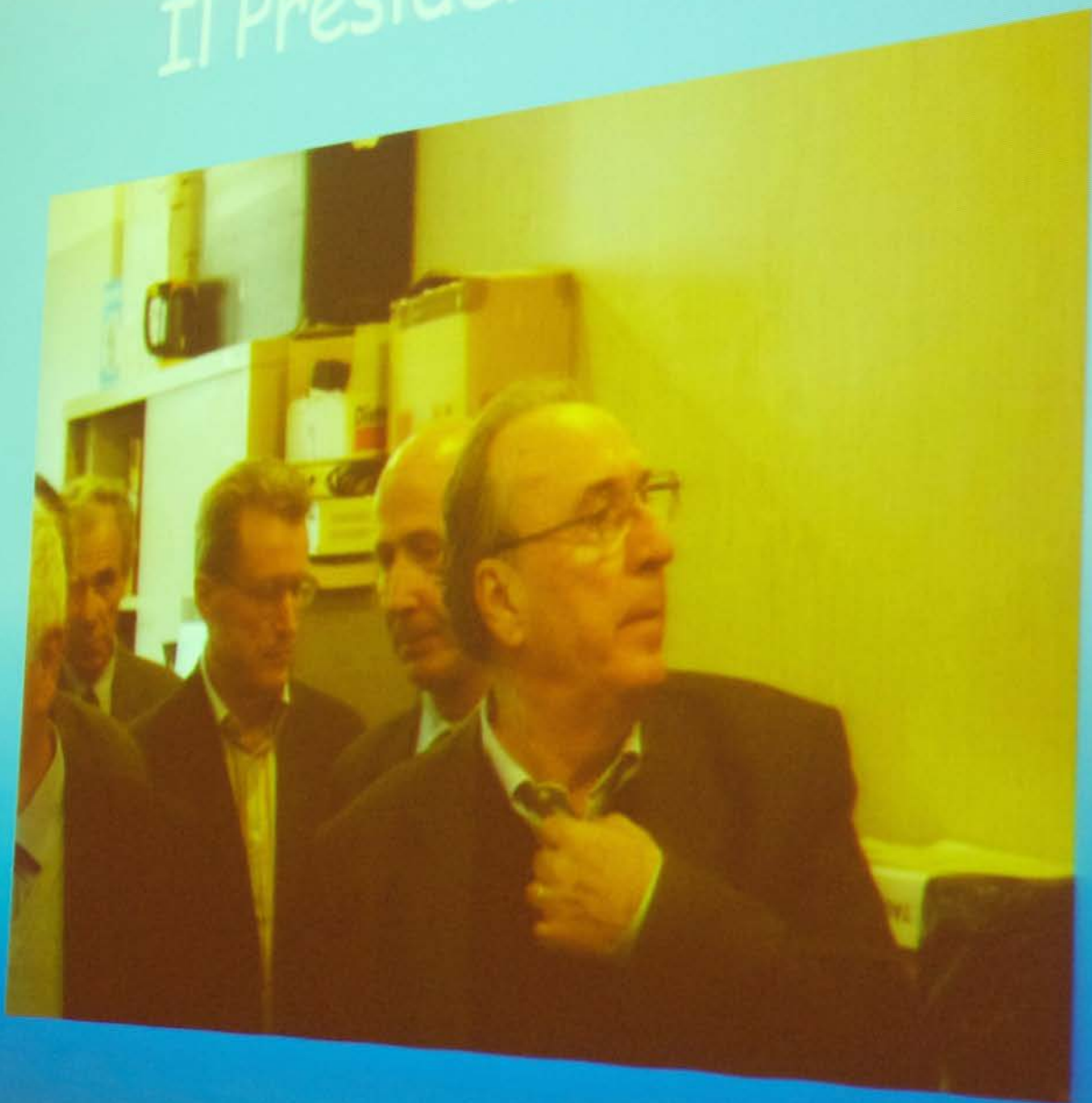
IFAM, 2000



1 Agosto 2000



Il Presidente, 2008



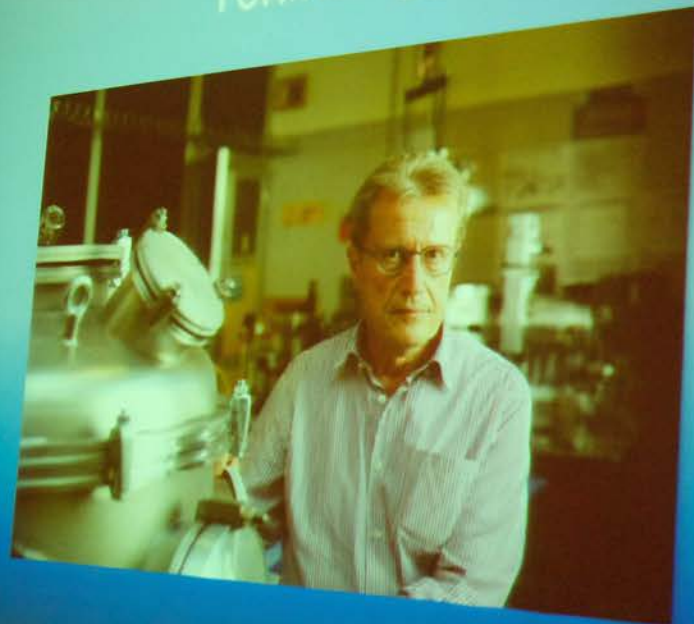
IPCF, 2007



Finalmente... 2013-2014



Tonino oggi









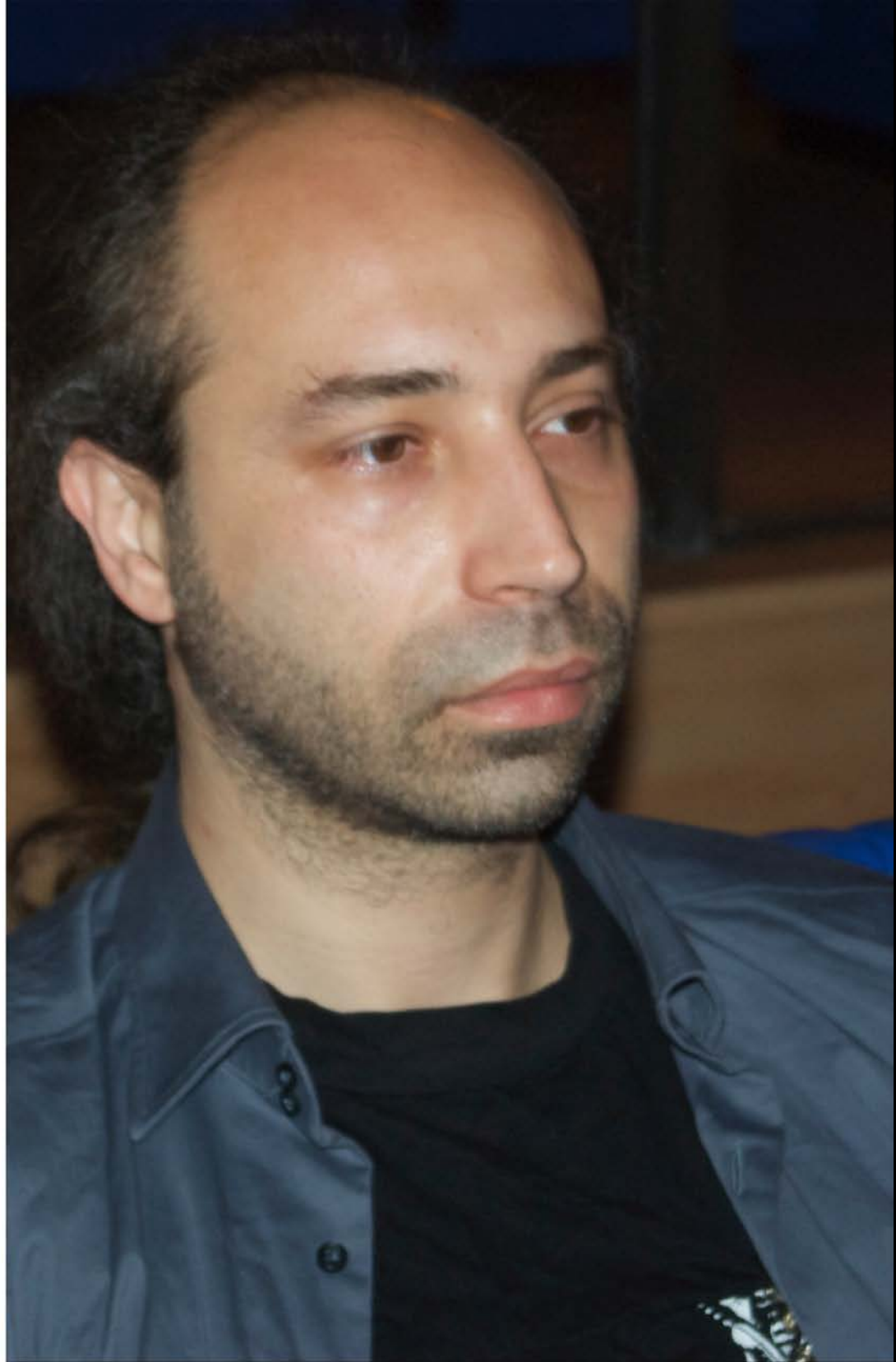
























Pisa 09.06.2014



































Gamucci Andrea



















Partecipanti

Tiberio Ceccotti, Andrea Macchi, Leo Gizzi, Alessandro Barbini, Mauro Tagliaferri, Paolo Ferrara, Francesco Pegoraro, Antonella Rossi, Riccardo De Angelis, Carlo Ferrari, Luca Labate, Antonio Rizzo, Stefania Grassini, Susanna Ughi, Federica Baffigi, Carlo Gabbanini, Lorenzo Fulgentini, Silvia Gozzini, Mario Cassettari, Oliver Morsch, Clara Lanza, Laura Colombaioni, Andrea Gamucci, Moreno Vaselli, Danilo Giulietti, Gabriele Cristoforetti, Orlando Ciricosta, Paolo Baschieri, Marco Galimberti, Gian Carlo Bussolino, Francesca Usala, Petra Koester, Piero Chessa, Angelica Vitiello, Piergiorgio Nicolosi, Alessandro Lucchesini, Antonella Sgarbossa, Gianluca Sarri, Mino Badalassi, Fabio Papucci, Silvano Bartalini, Rino Castaldi, Giovanna Roventini, Laura Girolami, Renzo Ripoli, Roberto Simili, Brunella Antodaro, Sandro De Silvestri, Pietro Mulser, Oswald Willi, Christine Labaune, Dimitri Batani, Antonio Giulietti, Tazio Levato, Nunzia Aprile, Daniele Palla e molti altri









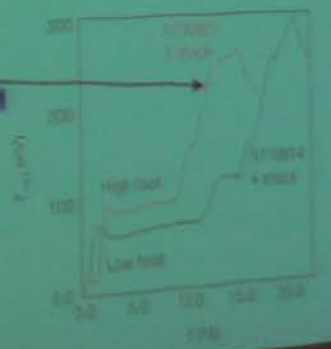
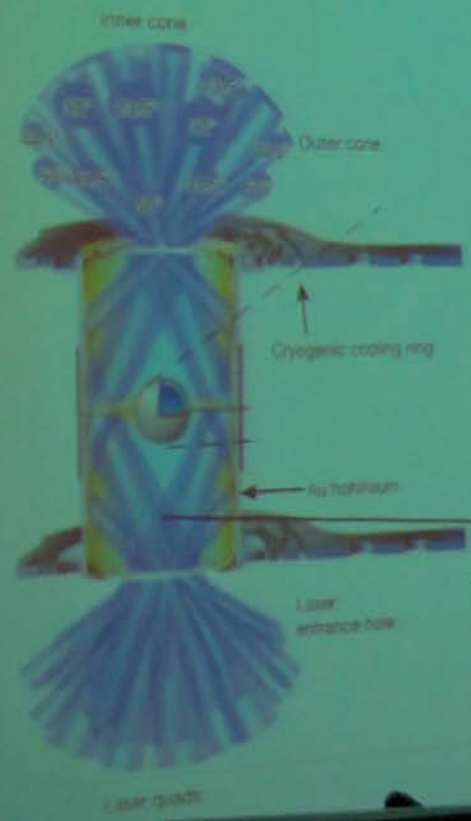




Extremely interesting new results (and bad publicity)

High-foot implosions (O. Hurricane, et al. Nature) entering a novel " α -heating regime"

Quantity	Value
T_{core} (keV)	15.2 ± 0.25
T_{core} (keV) D-T	5.0 ± 0.5
T_{core} (keV) D-D	4.2 ± 0.5
DSR (%)	40 ± 5
τ_{core} (ps)	150 ± 10
ρ_0 (ρ_0 , ρ_{ref})	35.6 ± 1.0
ρ_2/ρ_0	0.24 ± 0.02
ρ_3/ρ_0	0.045 ± 0.005
ρ_4/ρ_0	0.009 ± 0.001
K_{eff} (neutron)	6.3 ± 0.5
E_{core} (kJ)	1.1 ± 0.1
R_{core} (μm)	36 ± 3
Γ_{core} (g cm ⁻³)	0.12 ± 0.01
E_{core} (kJ)	1.1 ± 0.1
E_{core} (kJ)	2.3 ± 0.2
E_{core} (kJ)	1.5 ± 0.1
G_{core}	1.3 ± 0.1



This problem
REAL
instabilities
uniform









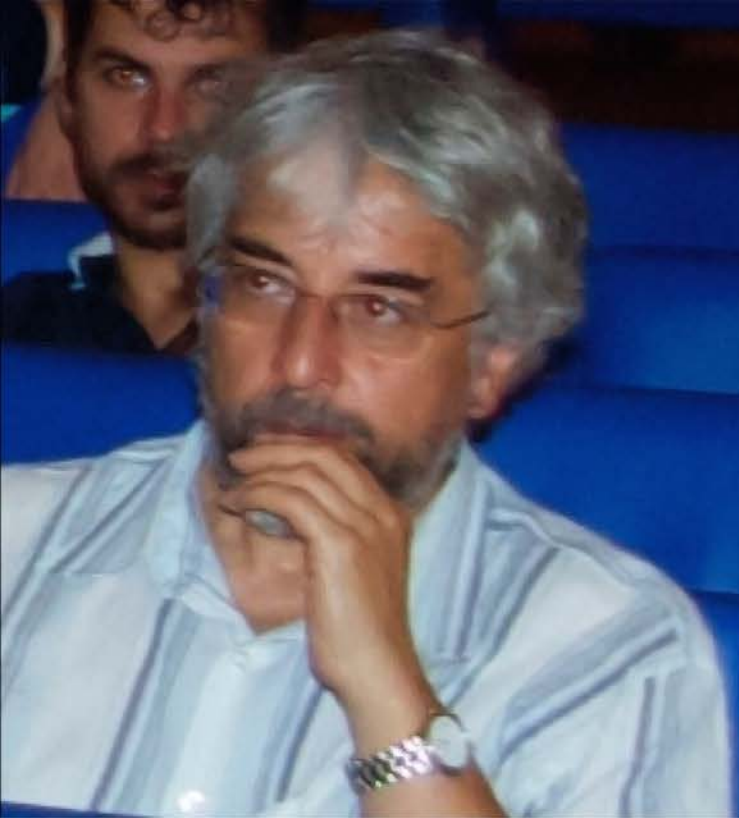














**SCIENCE WITH HIGH POWER LASERS AND PLASMAS:
AN INSPIRING FORWARD LOOK**

Celebrating the scientific career of Antonio GIULIETTI in view of his 70th birthday!

9th June 2014, Auditorium di Palazzo BLU, Pisa, Italy







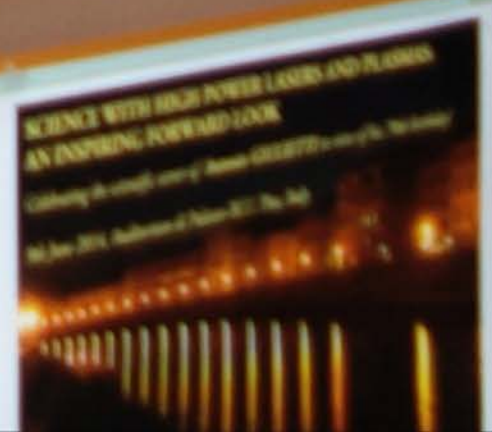














SCIENCE WITH HIGH POWER



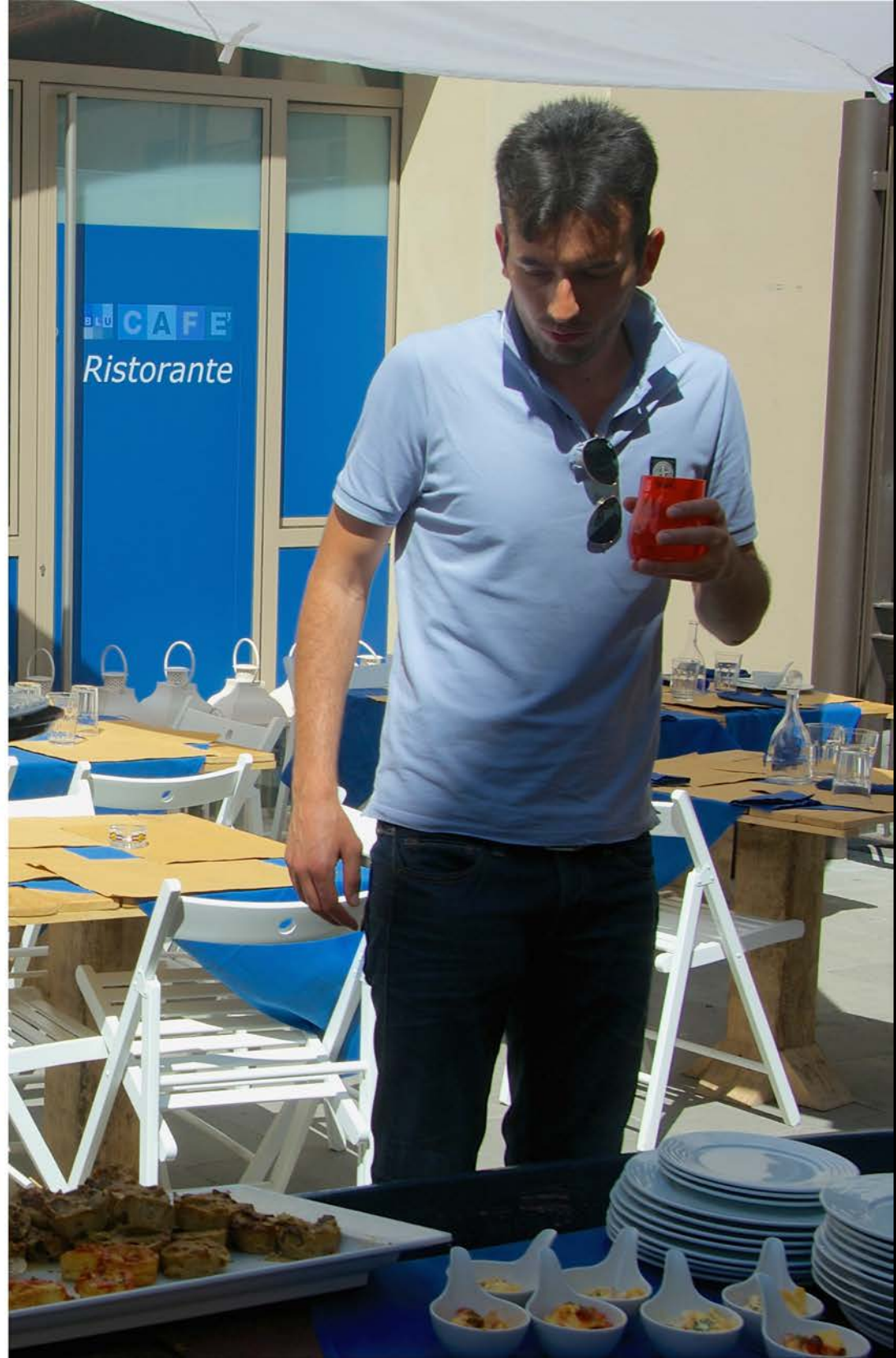












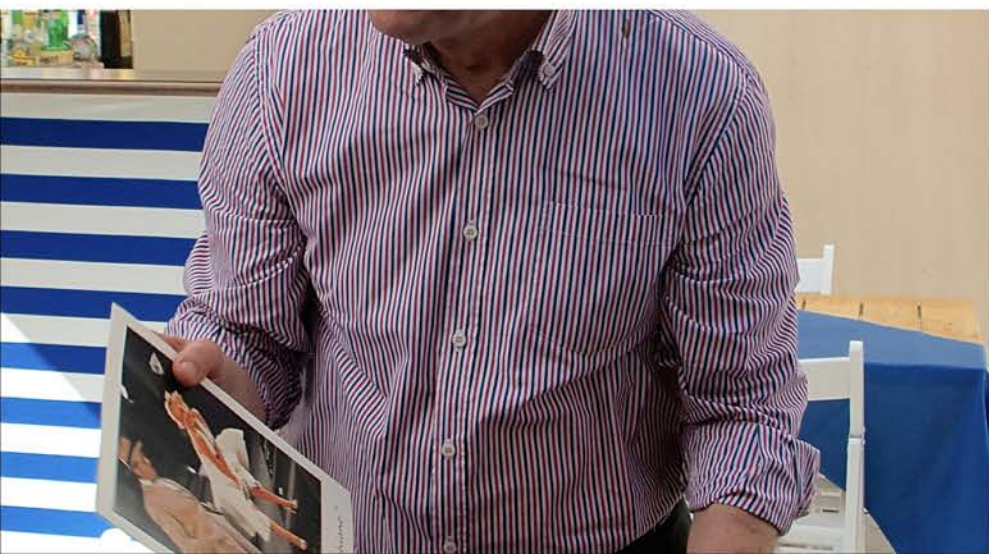




























SCIENCE WITH HIGH POWER LASERS AND PLASMAS: AN INSPIRING FORWARD LOOK

Celebrating the scientific career of Antonio GIULIETTI in view of his 70th birthday!

9TH JUNE 2014

Auditorium Palazzo BLU, Via Pietro Toselli, 27 - Pisa, Italy

9:30 Opening and introduction

*Leonida A. GIZZI (INO-CNR) and Tiberio CECCOTTI (CEA, Saclay)
Silvia GOZZINI, Responsabile UOS-INO Pisa*

9.45 LASERLAB

Sandro DE SILVESTRI, Politecnico di Milano and IFN-CNR

10.00 Challenges in laser-plasma theory

Peter MULSER, Darmstadt University, Germany

10.15 Relativistic laser-plasma dynamics

Oswald WILLI, Heinrich-Heine-Universität Düsseldorf, Germany

10.30 Lasers and proton acceleration

Tiberio CECCOTTI, CEA-Saclay, France

10.45 Plasmonics at ultra-high laser intensities

Andrea MACCHI, INO-CNR, Pisa, Italy

11.00 Future high power lasers at RAL

Marco GALIMBERTI, Rutherford Appleton Laboratory, United Kingdom

11.30 Coffee break @ BLU Cafè

12.00 Some thoughts on laser fusion schemes for energy

Christine LABAUNE, LULI, Ecole Polytechnique, Palaiseau, France

10.30 Lasers and proton acceleration

Tiberio CECCOTTI, CEA-Saclay, France

10.45 Plasmonics at ultra-high laser intensities

Andrea MACCHI, INO-CNR, Pisa, Italy

11.00 Future high power lasers at RAL

Marco GALIMBERTI, Rutherford Appleton Laboratory, United Kingdom

11.30 Coffee break @ *BLU Café*

12.00 Some thoughts on laser fusion schemes for energy

Christine LABAUNE, LULI, Ecole Polytechnique, Palaiseau, France

12.15 Confidence on inertial Fusion Energy

Dimitri BATANI, Bordeaux University, France

12.30 Diagnosing (Hot-spot Mix in) NIF implosions

Orlando CIRICOSTA, University of Oxford, United Kingdom

12.45 From shock waves to Laser Plasma Acceleration

Danilo GIULIETTI, Dipartimento di Fisica and INFN, Pisa, Italy

13.00 Ultra-bright high-energy γ -ray beams from non-linear Thomson scattering

Gianluca SARRI, Queen's University of Belfast, UK

13.15 Extreme Light for Radiation Sources

Leonida A. GIZZI, INO-CNR and INFN, Pisa, Italy

13.30 Views on Biomedical applications with intense lasers

*Antonio GIULIETTI
INO-CNR, Pisa, Italy*

14: 00 Lunch and Birthday Cake @ *BLU Café*