Parma, October 10-12 2018

KTE 2018

RECOLLECTIONS

A tribute to
Gianni Frosali, Roberto Monaco and Giampiero Spiga
on the occasion of their retirement

GIAMPIERO SPIGA

Career

- 1973-1982: “Assistente” and “Ricercatore” of Mathematical Physics, Universities of Bologna and Ancona;
- 1982-1987: Associate Professor of Mathematical Physics, University of Bologna;
- 1987-1990: Full Professor of Mathematical Physics, University of Bari;
- 1990-retirement: Full Professor of Mathematical Physics, University of Parma;
- Visiting Professor at University of Illinois, Nuclear research Institut Swierk (Poland), VPI & SU (Blacksburg, USA), University of Kaiserslautern, University of Virginia, University of Ulm, University of Kyoto, UCLA Los Angeles, Atomic Center Bariloche (Argentina), Warsaw University, University of Arizona (Tucson);

Teaching

Courses taught

- Theoretical Mechanics ("Meccanica Razionale");
- Kinetic Theory;
- Dynamical Systems;
- Mathematical Physics;
- Mathematical Analysis;
- Reactor's Physics.

Books

- G. Spiga: "Problemi Matematici della Fisica e dell'Ingegneria", Pitagora, 1985.
- G. Spiga, P. Vestrucci, A. Magnavacca : "Problemi di Fisica del Reattore Nucleare", Pitagora, **1900** (how old is Giampiero?).

Research

Topics

- Neutron Transport (with Boffi, Dunn, Molinari, Premuda, Trombetti, Borysiewicz, Mika, Landini, Prelati, M. Spiga, Vestrucci) ;
- Transport Theory (with Boffi, Santoro, Bisi, Groppi, Toscani, Bobylev, Potapenko, Caraffini, Franceschini, Haggag, Magnavacca, Protopopescu, Borysiewicz, Mika, Neunzert, Ganapol, Cole, Dorning, Dukek, Ertler, Schurrer, Monica, Koller, Makai, Paszit, Pescatore, Vestrucci, Rossani, Monaco, Nonnemacher, M. Spiga, Succi) ;
- Inelastic scattering and Quantum Transport (with Banasiak, Frosali, Bobylev, Fontana, Galli, Riganti, Ganapol, Garibotti, Groppi, Rossani, Domaingo);
- Extended Kinetic Theory (Chemical Reactions, mixtures, granular material ..., with Bisi, Bobylev, Caceres, Carillo, Desvillettes, Groppi, Martalò, Monica, Rossani, Ruggeri, Aoki, Tritsch, Lichtenberger, Schurrer, Lupini) ;
- Wave structure (with Bisi, Martalò, Bobylev, Cassinari, Conforto, Monaco, Groppi, Oggioni, Rjsanow, Ganapol, Willis, Zweifel);
- Other collaborators: Santarelli, Stamigioli, Alì, Torcicollo, Iori, Nespi, Conte, Miklavcic, Spizio, Oggioni, Platkovski).

Personal recollections

Giampiero in his office, 1993

Trondheim

Giampiero with Carlo Cercignani and Maria Lampis
(Trondheim June 1983, by Aoki)

Blacksburg

ICTT, Blacksburg 1989

Blacksburg

ICTT, Blacksburg 1989

Bari

Giampiero and Alida with Aoki in Bari (1989)

Aachen

Giampiero Alida with with Aoki and M. Lampis (RGD Aachen 1989)

Goteborg

Giampiero and Gianni with Gloria (ICTT Goteborg 1997)
(Jacek Polewczak in background?)

Parma

Giampiero with Maria Groppi (1999)

Parma

Giampiero at Marzia Bisi's Laurea (2000)

London

Giampiero with Maria, Fiammetta and Gianni, ICTT London 2001

Porto Ercole

Giampiero with Bobylev, Porto Ercole 2002

Rio

Giampiero at the ICTT Rio 2003

Budapest

Giampiero at the Heroes Square ICTT Budapest 2005

Russia

Giampiero at the ICTT Obninsk 2007

Russia

Giampiero and Irina at the ICTT Obninsk 2007

Karlstad

Giampiero with Aoki (Karlstad 2017)

Karlstad

Giampiero with Toscani (Karlstad 2017)

ROBERTO MONACO

Career

- 1973-1976: Aeritalia;
- 1976-1985: "Assistente" and "Ricercatore", Politecnico di Torino, College of Engineering;
- 1982-1987: Associate Professor of Mathematical Physics, Politecnico di Torino;
- 1990-1993: Full Professor of Mathematical Physics, University of Genova;
- 1993-2011: Full Professor of Mathematical Physics, Politecnico di Torino.

Teaching

Courses taught

- Mathematical Physics;
- Calculus;
- Applied Mathematics;
- Continuum Mechanics;
- Kinetic thoery;
- Theoretical Mechanics.
- Architecture, Scenography and Music (coord.).

Books

- R. Monaco: "Introduzione alle Equazioni Differenziali alle Derivate Parziali", CLUT, Torino", 1976.
- R. Monaco: "Introduzione ai Metodi Matematici della Meccanica Classica", CLUT, Torino, 1977.
- R. Monaco, "Recent studies on the physical mathematical theory of gas-surface kinetics with scattering and adsorption-desorption phenomena and its application to the mathematical formulation of the boundary conditions for the Boltzmann equation", Monografie Celid, Torino,1979.
- R. Monaco, A.R. Scarafiotti, "Some mathematical problems related to a linear model of the Boltzmann equation", Monografie Celid, Torino, 1980.
- A. Mela, R. Monaco, A. Peano, M. Pellegrini, G. Rabino, A. Spaziante, La misura della disomogeneit nei caratteri delle aree urbane: Torino per quartieri, in Laboratorio di Analisi dei Sistemi Territoriali, Monografie Levrotto & Bella, Torino, 1981.

Books

- N. Bellomo, C. Dankert, H. Legge, R. Monaco, Drag, heat flux and recovery factor measures in free molecular hypersonic flow and gas-surface interaction analysis, Complete Report of [33] in Monografie Levrotto & Bella, Torino, 1985.
- R. Monaco: "Introduction la thorie et aux applications de linteraction gaz-paroi en thorie cintique des gaz", Levrotto & Bella, 1986.
- R. Monaco, L. Emanuele, R. Riganti: "Lezioni di Matematica 2", Levrotto & Bella, 1986.
- R. Monaco, L. Preziosi, Fluid Dynamic Applications of the Discrete Boltzmann Equation, World Sci. Pub., Singapore, 1991.
- R. Monaco, "Le Equazioni Differenziali e le loro Applicazioni", CELID, Torino, 1995.
- R. Monaco, S. Benenti: "Calcolo Differenziale per le Scienze Applicate", CELID, 1997.
- R. Monaco, A. Repaci: "Algebra Lineare", CELID, 2002.
- R. Monaco, G. Servente: "Introduzione ai Modelli Matematici nelle Scienze Territoriali", CELID, 2006.

Topics

- Kinetic Theory of Gases (with Bellomo, Rizzi, Pistone, Palamara Orsi, Scarafiotti, Riganti, Pandolfi Bianchi, Buda, Legge, Dankert, Longo, Toscani, Platkowski, Bonzani, Zavattaro, de Socio, Lachowicz, Repaci, Gabetta, Rossani, Preziosi, Lauro, Cevasco, Cimaschi, Gerasimenko, Belleni-Morante, Spiga, Polewczak, Hanser, Schurrer, Cattani, Salvarani, Jannelli, Ruggeri, Pieraccini, Puppo, Barletti, Desvillettes, Ricciardello);
- Wave propagation in hyperbolic systems (with Longo, Platkowski, Pandolfi Bianchi, Borgioli, Toscani, Soares, Conforto, Schurrer, Ziegler, Groppi, Spiga);
- Mathematical models in environmental sciences (with Bonacini, Soresina, Groppi, Soares, Mela, Peano, Pellegrini, Rabino, Spaziante, Finotto, Gobattoni, Leone, Pelorosso, Boudin, Lisi, Ripa, Geri, Assumma, Bottero, Datola, Brunetta, Salizzoni).

U.R.S.S.

Roberto at the 1982 RGD, Novosibirsk

Alpi Giulie?

During a mountain excursion

Villasimius

Wascom 2003, Villasimius

Villasimius

Wascom 2003, Villasimius

Villasimius

Wascom 2003, Villasimius

Porto Ercole

Porto Ercole 2004 - annual meeting of the PRIN 2003-2005

Osaka

Osaka 2004

Brixen

Brixen 2005

Bordeaux

Bordeaux 2013 - Workshop on Kinetic equations and applications

Cetraro

Wascom 2016, Cetraro

Cetraro

Wascom 2016, Cetraro

Porto Ercole

Porto Ercole 2018

Pereta

Pereta 2018

Pereta

Pereta 2018