Fri, March 27:

- **Ultrasound course** “Echo-color Doppler of the Extra and Intracranial Vessels” (on payment of 150 euros):
  - **Chairs:** Dr. Paolo Zamboni & Dr. Adriana Visonà

  **9:00 AM—9:20AM:** Extracranial arteries—
  Maria Amitrano, M.D
  AORN Moscati Avellino
  Executive Director of the Section of Angiology
  Avellino, Italy

  **9:20 AM—9:40AM:** Vulnerable plaque—
  Maria Fabrizia Giannoni, M.D.
  University of Rome La Sapienza,
  Department of General & Surgical Surgery
  Rome, Italy

  **9:40 AM—10:00AM:** Intracranial arteries—
  Maria Luisa Zedde, M.D.
  Neurology Unit;
  Department of Neuromotor Physiology
  ASMN - Reggio Emilia
  Italy

  **10:00 AM—10:20AM:** Cerebrovascular Reactivity—
  Mauro Silvestrini, M.D.
  University Hospital, United Hospitals of Ancona
  Dept. of Experimental and Clinical Medicine,
  Section of Neuroscience Clinics

  **10:20 AM—10:40AM:** Discussion
  **10:40 AM—11:00 AM:** Break

  **11:00 AM—11:20AM:** Extracranial Veins—
Erica Menegatti, Ph.D.
Vascular Disease Center
University of Ferrara
Italy

11:20 AM—11:40 AM: **Intracranial Veins**—
Marcello Mancini, M.D.
Institute of Biostructures and Bioimaging—CNR
Naples, Italy

11:40 AM—12:00 PM: **Cerebral parenchymal ultrasonography**—
Sandro Sanguigni, M.D.
U.O. Neurology Hospital Madonna del Soccorso San Benedetto del Tronto (AP)
Italy

12:00 PM—12:20 PM: Discussion
12:20 PM—2:00 PM: Lunch

2:00 PM—5:00 PM: Practical Session

- **Poster session:**
  - **Chairs:** Dr. Enrico Tedeschi, Dr. Hector Feral
    - 5:00PM-6:30PM

- **Key-note lecture:**
  - **Chairs:** Dr. Salvatore Sclafani - President Elect
    - 6:30PM - 7:30PM - “The Heart-brain Axis: An Overlooked Cause of Brain Aging.” - Professor Mat Daemen,
      University of Amsterdam
      Amsterdam, the Netherlands

- **Welcome Cocktail:**
  - 7:30PM-9:30PM – Centro Congressi Federico II -Partenope

Sat, March 28:

- **7:15 a.m. - ISNVD Board Member Meeting: venue tbd**

- **Opening of the Congress:**
  - 8AM-8:15AM - **ISNVD President’s address** - Ziv Haskal, M.D.;
    University of Virginia, Charlottesville, VA USA
President of the Convention address –
Marco Salvatore, M.D.;
Professor of Diagnostic Imaging and Radiation Therapy at the Medical School of the University of Naples, Italy

- Session 1: Hemodynamics of the brain
  - Chairs: Dr. Marcello Mancini & Dr. Mark Haacke

  - 8:15AM-8:35AM – Cardiovascular risk factors and neurodegenerative disorders –
    Robert Zivadinov, M.D., Ph.D.
    State University of New York at Buffalo – Dept. of Neurology
    Buffalo, New York, USA

  - 8:35AM-8:55AM – Ultrasound contrast imaging of brain hemodynamic and perfusion –
    Marcello Mancini, M.D.
    Institute of Biostructure and Bioimage – CNR
    Naples, Italy

  - 8:55AM-9:15AM – TBI and hemodynamic changes in the brain
    James Stone, M.D., Ph.D.
    University of Virginia,
    Department of Interventional Radiology
    Charlottesville, Virginia, USA

  - 9:15AM-9:35AM – Imaging of the microvasculature –
    Mark E. Haacke, Ph.D.
    Wayne State University,
    Dept. of Biomedical Engineering
    Detroit, MI USA

    Hugues Chabriat, M.D., Ph.D.
    Head, Department of Neurology
    University Hospital Lariboisiere
    Paris, France

  - 9:55AM-10:05AM – Selected platform 1
  - 10:05AM-10:15AM – Selected platform 2
  - 10:15-10:30AM – Break
• Session 2: Quantitative flow and computational fluid modeling
  o Chairs: Dr. Clive Beggs & Dr. Michael Dake

    ▪ 10:30AM-10:50AM – 2D and 3D analysis of vessels in the retina and the brain –
      Bart Romeny, Ph.D.
      Eindhoven University of Technology
      Eindhoven Area, Netherlands
      Northeastern University, Shenyang, China

    ▪ 10:50AM-11:10AM – A novel sonographic method for reproducible jugular vein pulse wave assessment –
      Paolo Zamboni, M.D.
      University of Ferrara
      Ferrara, Italy

    ▪ 11:10AM-11:30AM – Blood storage within the intracranial space and its impact on cerebrospinal fluid dynamics–
      Clive Beggs, Ph.D.
      University of Bradford
      West Yorkshire, United Kingdom

    ▪ 11:30AM-11:50AM – Update in computational fluid modeling of the brain –
      Mauro Ursino, Ph.D.
      University of Bologna
      Bologna, Italy

    ▪ 11:50AM-12:10PM – Fluid dynamic influences on cerebrovascular endothelial activation responses –
      Steve Alexander, Ph.D.
      Dept. of Molecular and Cellular Physiology
      Louisiana State University
      Shreveport, Louisiana, USA

    ▪ 12:10PM-12:20PM – Selected platform 3
    ▪ 12:20PM-12:30PM – Selected platform 4
    ▪ 12:30-1:30PM – Lunch and ISNVD Membership meeting

• Session 3: Venous dysfunction and treatment strategies
  o Chairs: Dr. Ziv Haskal & Dr. Paolo Zamboni
1:30PM-1:50PM – Venous abnormalities in Meniere disease –
Pietro Maria Bavera, M.D.
University of Milan; Dept. of Vascular Surgery
Milan, Italy

1:50PM-2:10PM – Advances in idiopathic intracranial hypertension pathogenesis: focus on sinus venous stenosis -
Roberto De Simone, M.D.
University Federico II of Naples, Headache Centre
Naples, Italy

2:10PM-2:30PM – Advances in treatment strategies of extracranial venous disease -
Hector Ferral, M.D.
Northshore University Healthcare System
Chicago, Illinois, USA

2:30PM-2:50PM – Venous dysfunction and neurodegenerative diseases –
Chih Ping Chung, M.D., Ph.D.
National Yang Ming University
Taipei Veterans General Hospital, Taiwan

2:50PM-3:10PM – Clinical applications of venous treatment -
Michael Dake, M.D.
Stanford University
Stanford, California, USA

3:10PM-3:20PM – Selected platform 5
3:20PM-3:30PM – Selected platform 6
3:30PM-4:00PM – Break

• Session 4: Endothelial function, glymphatic system and new drug development
  
  o Chairs: Dr. Robert Zivadinov & Dr. Steve Alexander

  4:00PM-4:20PM – Endothelial dysfunction in neurodegenerative disease -
  Steve Alexander, Ph.D.
  Dept. of Molecular and Cellular Physiology,
  Louisiana State University,
Shreveport, Louisiana, USA

- 4:20PM-4:40PM - Is there a role for mast cells dependent synthesis of Endothelin 1 in neurodegenerative diseases? – Pedro D’Orleans-Juste, Ph.D.
  University of Sherbrooke,
  Department of Pharmacology
  Quebec, Canada

- 4:40PM-5:00PM – Endothelin-1 as a potential target for chronic brain hypoperfusion –
  Jacques De Keyser, Ph.D.
  University of Brussels,
  Department of Neurology
  Brussels, Belgium

- 5:00PM-5:20PM – Structural changes in extra-CNS blood vessels in neurodegeneration –
  Marie-Luce Bochaton-Piallat, Ph.D.
  University of Geneva,
  Dept. of Pathology and Immunology
  Geneva, Switzerland

- 5:20PM-5:30PM – Selected platform 7
- 5:30PM-5:40PM – Selected platform 8
- 5:40PM-6:00PM – Final discussion

- **ISNVD Evening:**
  - 7:00 PM – Leave on buses to attend GALA dinner at separate venue - Complesso Monumentale San Lorenzo Maggiore Sala Sisto V.

- **GALA program and dinner**
  - 7:45 PM – Young Investigator Award @ dinner venue
  - 8:00PM-10:00PM – Dinner/Silent Auction @ Complesso Monumentale San Lorenzo Maggiore Sala Sisto V

**Sunday, March 29th:**  Brunch with Carol and Scott Schumacher