Session Titles from Istanbul Conference (2012)

S1  THE ROLE OF HEMORHEOLOGICAL MEASUREMENTS IN CLINICAL PHARMACOLOGICAL RESEARCH
S2  MICROVASCULAR HEMODYNAMICS: IMPLICATIONS OF PLASMA VOLUME EXPANDERS
S3  MECHANOBIOLGY OF THE BLOOD-ENDOTHELIUM INTERFACE
S4  SICKLE CELL DISEASE AND INTEGRATIVE PHYSIOLOGY APPROACH
S5  CLINICAL RELEVANCE OF HEMORHEOLOGY IN HYPERVISCOSITY SYNDROMES
S6  MOLECULAR BIOMECHANICS OF CELL ADHESION UNDER FLOW
S7  EXERCISE AND HEMORHEOLOGY IN HEALTH
S8  CELL MATRIX MECHANICAL INTERACTIONS
S9  CELLULAR AND MOLECULAR MECHANOBILOGY
S10 HEMORHEOLOGICAL BRIDGE CONNECTING BASIC AND CLINICAL SCIENCES
S11 ADVANCED METHODS AND TECHNIQUES IN HEMORHEOLOGY
S12 SICKLE CELL DISEASE AND BLOOD RHEOLOGY
S13 ACTUAL TOPICS IN CLINICAL HEMORHEOLOGY AND MICRO-CIRCULATION. I
S14 HEMORHEOLOGIC ROLE IN MICRO- AND MACRO- VASCULAR ATHEROSCLEROTIC DISEASE
S15 ADVANCES IN RED BLOOD CELL RHEOLOGY
S16 BIOHEMORHEOLOGICAL FLOW STUDIES: STENTS, HEART VALVES AND MEASUREMENT TECHNIQUES
S17 ACTUAL TOPICS IN CLINICAL HEMORHEOLOGY AND MICRO-CIRCULATION. II
S18 EXERCISE AND HEMORHEOLOGY IN DISEASE
S19 ADVANCES IN WHITE CELL AND PLATELET RHEOLOGY
S20 CELL-FREE LAYER FORMATION AND ITS CLINICAL APPLICATION
S21 HEMORHEOLOGY AND BIOMECHANICS IN PHARMACOLOGY
S22 STRUCTURE AND FUNCTION OF THE ENDOTHELIAL GLYCOCALYX
S23 LASER DIFFRACTION ANALYSIS OF RED BLOOD CELL DEFORMABILITY
S24 CELL ADHESION AND MIGRATION IN HEALTH AND DISEASE
S25 CELL MECHANICS AND CYTOSKELETON
S26 CLINICAL APPLICATION OF HEMORHEOLOGY
S28 CELL ADHESION AND MIGRATION IN HEALTH AND DISEASE.
Preliminary Topics of Scientific Sessions and Symposia

**Session Titles from Penn State Conference (2008)**

S1  Clinical hemorheology and microcirculation  
S2  Round table discussion: Contribution of  
S3  Novel microfluidic designs and emerging  
S4  Leukocyte biomechanics  
S5  Cellular mechanics of microvascular blood flow  
S6  Hemorheology and exercise - I  
S7  Inter-relations of inflammation, thrombosis and cancer metastasis  
S8  Recent advances in understanding adhesive properties of blood cells - I  
S9  Hemorheology and biomechanics in pharmacology  
S10  Hemorheology in cardiology  
S11  Hemorheology and Exercise - II  
S12  Recent advances in understanding adhesive properties of blood cells - II  
S13  Cell mechanics and mechanobiology  
S14  Hemorheological research at bedside  
S15  Potential clinical applications of blood soluble drag-reducing polymers  
S16  Red blood cell adhesion to vascular endothelial cells: Biochemical and biophysical Factors  
S17  Nano mechanics of leukocyte rolling and adhesion  
S18  Glycorheology of the blood-endothelial barrier: Effects of the endothelial glycocalyx on transport and cell adhesion  
S19  The physiology and benefits of increasing blood and plasma viscosity and the counterintuitive regulation of blood pressure by blood viscosity: Physics and biochemistry  
S20  Methods/technology in hemorheology - I  
S21  Cellular and molecular biomechanics and bioengineering  
S22  Hemorheological aspects of mechanical blood trauma  
S23  The physiology and benefits of increasing blood and plasma viscosity and the counterintuitive regulation of blood pressure by blood viscosity: Clinical implications  
S24  Methods-technology in hemorheology - II  
S25  Hemorheological modelling and simulation  
S26  Hemorheological aspects of sickle cell disease  
S27  Clinical aspects of hyperviscosity  
S28  Molecular biomechanics and biorheology  
S29  Nitric oxide and erythrocyte: A two-way relationship  
S30  Cellular biomechanics - I  
S31  Ultrasonic measurements of red blood cell and vessel wall structures  
S32  Thermal processes and temperature measurement in biological systems; from cells to organs  
S33  The changes of hemorheological profile under drug therapy and their control mechanisms  
S34  Cellular biomechanics - II  
S35  Red blood cell mechanics  
S36  Platelets and coagulation