ANNOUNCEMENT

5. INTERNATIONAL CONGRESS OF BIORHEOLOGY

Baden-Baden, F.R. Germany
20.-24. August 1983

President of the Congress
Siegfried Witte

Secretary General of the Congress
Kurt Messmer

The 5th International Congress of Biorheology will be held under the auspices of the International Society of Biorheology from 20. to 24. August 1983 in the Congress House, Baden-Baden, Federal Republic of Germany.

The International Society of Biorheology

President
Siegfried Witte (F.R. Germany)

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C.G. Caro (UK)
Yuan-Cheng Fung (USA)
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Holger Schmid-Schönbein (F.R. Germany)

Chairman, Committee on Nomenclature
M. Joly (France)

Liaison Representative to the Union of Pure and Applied Biophysics
A. Silberberg (Israel)
The scientific program will comprise the most recent advances in all fields of biorheology and in biorheological techniques. There will be invited plenary lectures, symposia and free communications including poster discussions. On August 24 a joint session with the 3rd European Conference on Clinical Hemorheology will be held. A satellite symposium on measuring techniques in biorheology will take place in Strasbourg (France).

The following topics are being considered for the Congress by the Scientific Program Committee:

- Measuring techniques in biorheology
- Mathematical biorheology
- Properties of biopolymers
- Tissue deformability
- Soft tissue
- Bone and ligaments
- Biorheology in rheumatic disease
- Mucus in health and disease
- Cell membranes
- Flow properties of cells
- Transport phenomena
- Fluid dynamics
- Blood vessels
- Permeability and vessel wall
- Microcirculation
- Clinical biorheology
- Relationship between in vivo and in vitro studies in hemorheology
- Red cell aggregation and red cell deformation
- Actions of drugs on blood rheology
- Coagulation
- Hemodynamics
- Hemorheologic disorders
- Hemorheology in blood transfusion
- Surface hemorheology
Registered members of the Congress can contribute papers to the Congress. The abstracts will be selected by the Scientific Program Committee and published in an abstract volume.

The language of the Congress will be English.

Please address inquiries to:

Professor Dr. med. K. Messmer
Department of Experimental Surgery
Im Neuenheimer Feld 347
D-6900
Heidelberg 1
F.R. Germany
ANNOUNCEMENT

International Conference on
SURFACE PHENOMENA IN HEMORHEOLOGY:
THEIR THEORETICAL, EXPERIMENTAL AND CLINICAL ASPECTS
26-29 October 1982

Conference Co-Chairmen: Alfred L. Copley, Brooklyn, NY, USA
and Geoffrey V.F. Seaman, Portland, OR, USA

All sessions held at
The Barbizon Plaza Hotel
106 Central Park South
New York, NY 10019

TUESDAY, OCTOBER 26, 1982

A. THEORETICAL

SESSION 1: SURFACE FORCES IN BIOLOGICAL SYSTEMS
Chairmen: Herbert J. Meiselman, Los Angeles, CA, USA; V. Adrian Parsegian, Bethesda, MD, USA

VESICLE AGGREGATION AND FUSION AS A PROBE OF MEMBRANE INTERACTIONS
Joe Bentz, Buffalo, NY, USA

MEMBRANE INTERACTION AND DEFORMATION
V. Adrian Parsegian, Bethesda, MD, USA; R. Peter Rand, St. Catharines, Canada

ENERGETICS OF MEMBRANE DEFORMATION AND ADHESION IN CELL AGGREGATION
Evan A. Evans, Vancouver, Canada

SURFACE CHEMICAL FACTORS PRESAGING BIOADHESIVE EVENTS
Robert E. Baier, Buffalo, NY, USA

SURFACE FORCES AND EFFECTS UPON ERYTHROCYTE SHAPE
Michael Sheets and Eytan Alhanaty, Farmington, CT, USA

THE IMPORTANCE OF THE ELECTROSTATIC AND STERIC PROPERTIES OF THE RED CELL MEMBRANE FOR RBC-RBC AND RBC-SURFACE INTERACTIONS
Dietmar Lerche, Berlin, GDR
SESSION 2: SURFACE HEMORHEOLOGY
Chairmen: Alex Silberberg, Rehovot, Israel; Richard Skalak, New York, NY, USA

THE ROLE OF MEMBRANE BOUND MACROMOLECULES AND MACROMOLECULES IN SOLUTION IN CELL/CELL ENCOUNTERS IN FLOWING BLOOD
Alex Silberberg, Rehovot, Israel

MATHEMATICAL MODELS FOR TRANSPORT ACROSS THE ENDOTHELIAL CELL LAYER
Sheldon Weinbaum, New York, NY, USA

PHYSICAL THEORY OF SOME INTERFACE PHENOMENA IN HEMORHEOLOGY
Syoten Oka, Osaka, Japan

RED CELL MEMBRANE PROTEINS IN MONOLAYER AND MULTILAYER STRUCTURES
Martin Blank, New York, NY, USA

THEORETICAL MODELS OF ROULEAUX FORMATION
Richard Skalak

DYNAMIC RED CELL DEFORMATION IN FLOW: A CONTINUOUS ROTATION OF THE RBC MEMBRANE IN SHEAR FIELDS
Holger Schmid-Schonbein, Aachen, W. Germany

WEDNESDAY, OCTOBER 27, 1982

B. EXPERIMENTAL

SESSION 3: SURFACE PROPERTIES OF THE BLOOD CELLULAR ELEMENTS
Chairmen: David Danon, Rehovot, Israel; Vincent T. Marchesi, New Haven, CT, USA

SURFACE CHARGE OF OLD, TRANSFORMED AND EXPERIMENTALLY DETERIORATEDERYTHROCYTES
David Danon

STRUCTURE AND FUNCTION OF THE RED CELL MEMBRANE SKELETAL COMPLEX
Vincent T. Marchesi

PLATELET MEMBRANE GLYCOPROTEINS IN ADHESION AND AGGREGATION
David R. Phillips, San Francisco, CA, USA

ELECTROCHEMICAL PROPERTIES OF THE PERIPHERAL ZONES OF ERYTHROCYTES
Geoffrey V.F. Seaman, Portland, OR, USA

ENERGY BALANCE IN RED CELL INTERACTIONS
Shu Shien, New York, NY, USA

EXTENSIONAL FLOW OF RED CELL MEMBRANE
Robert M. Hochmuth, Durham, NC, USA

SESSION 4: INTERACTION OF BLOOD CELLULAR ELEMENTS WITH OTHER CELLS AND WITH FOREIGN PARTICLES
Chairmen: Kenneth M. Brinkhous, Chapel Hill, NC, USA; Harry L. Goldsmith, Montreal, Canada

YIELD STRESS IN SEDIMENTED RED BLOOD CELL LAYERS
Perry L. Blackshear, Jr., Christopher Morris, and Steven J. Kayer, Minneapolis, MN, USA

MEASUREMENTS OF SURFACE TENSIONS OF BLOOD CELLS AND OTHER PARTICLES
A. Wilhelm Neumann, J.K. Spelt, Canada; D.R. Absolom, Toronto, Canada

SHEAR-INDUCED COLLISIONS BETWEEN HUMAN BLOOD CELLS
Harry L. Goldsmith

INTERACTIONS OF ERYTHROCYTES WITH BACTERIA UNDER SHEAR
Donald E. Brooks, Vancouver, Canada

INTERACTION OF PHAGOCYTES WITH OTHER BLOOD CELLS, AND WITH PATHOGENIC AND NON-PATHOGENIC MICROBES
Carel J. van Oss, Buffalo, NY USA
PLATELET AND RED CELL INTERACTION IN MURAL THROMBOGENESIS
Vincent T. Turitto, New York, NY, USA

THURSDAY, OCTOBER 28, 1982

B. EXPERIMENTAL (Continued)

SESSION 5: SURFACE PROPERTIES OF THE BLOOD VESSEL WALL
Chairmen: George Bugliarello, Brooklyn, NY, USA; Siegfried Witte
Karlsruhe, West Germany

SURFACE PROPERTIES OF PULMONARY ENDOTHELIAL CELLS Una S. Ryan,
Miami, FL, USA
VESICULAR TRANSPORT OF PROTEINS IN ISOLATED CAPILLARY ENDOTHELIAL
Stuart K. Williams, Philadelphia, PA, USA
MACROMOLECULAR CHARGE AND CELLULAR SURFACE CHARGE IN ADHESION,
INGESTION AND BLOOD VESSEL LEAKAGE Satimaru Seno, Tadashi
Tsujii, Toshiro Ono, Okayama, Japan
SURFACE PHENOMENA OF COAGULATION FACTORS IN VIVO, OBSERVED BY
FLUORESCENCE INTRAVITAL MICROSCOPY Siegfried Witte
THE ENDO-ENDOTHELIAL FIBRIN LINING, FIBRINOGEN GEL CLOTTING AND THE
ENDOTHELIAL- BLOOD INTERFACE Alfred L. Copley, Brooklyn, NY, USA
FIBRIN GELS - THEIR IMPLICATION FOR SURFACE HEMORHEOLOGY IN
HEALTH AND DISEASE Birger Blomback, Stockholm, Sweden and
New York, USA; Masahisa Okada, New York, NY, USA
REGIONAL DIFFERENTIATION OF SURFACE CHARGE ALONG SEQUENTIAL SEGMENTS
OF BLOOD VESSELS Nicolae Simionescu, Maya Simionescu,
Bucharest, Romania; George Palade, New Haven, CT, USA

SESSION 6: INTERACTION OF BLOOD WITH ARTIFICIAL SURFACES EXTRA
VIVUM AND IN VIVO
Chairmen: Leo Vroman, Brooklyn, NY, USA; Per Olsson, Stockholm,
Sweden

THE BLOOD INTERFACE AT ARTIFICIAL SURFACES WITHIN A LEFT VENTRICULAR
ASSIST SYSTEM Peer M. Portner, Oakland and Stanford, CA,
USA
PLATELETS ADHERE WHERE FLOW HAS LEFT FIBRINOGEN ON GLASS
Michael F. Stanford, P.C. Munoz, and L. Broman,
Brooklyn, NY, USA
THE BIOLOGICAL ACTIVITY OF ANTITHROMBOTIC AGENTS IMMOBILIZED
ON POLYMER SURFACES Sung Wan Kim, Salt Lake City, UT, USA
MODE OF ACTION OF THROMBORESISTANT SURFACE HEPARINIZED MATERIALS
Per Olsson, Stockholm, Sweden; Rolf Larsson, Bromma, Sweden
THROMBOGENESIS: EFFECT OF MOLECULAR MOTIONS, SURFACE ORDER, AND
HYDROPHOBICITY OF THE POLYMER INTERFACE S.A. Barenberg,
Wilmington, DE, USA
THE RELATIONSHIP BETWEEN SURFACE CHARGE (POTENTIAL CHARACTERISTICS)
of THE VASCULAR INTERFACE AND THROMBOSIS Philip N. Sawyer,
Brooklyn, NY, USA

FRIDAY, OCTOBER 29, 1982

C. CLINICAL
SESSION 7: ACTION OF PHARMACOLOGICAL AGENTS ON BLOOD CELLULAR SURFACES

Chairmen: John A. Dormandy, London, England; Leopold Dintenfass, Sydney, Australia

RED CELL DEFORMABILITY AS A CRITERIA OF SURFACE HEMORHEOLOGICAL CHANGES: CLINICAL AND PHARMACOLOGICAL APPROACHES G.A. Marcel, Paris, France

THE ASSESSMENT OF PHARMACOLOGICAL AGENTS WITH A HEMORHEOLOGICAL ACTION John A. Dormandy

ACTION OF DRUGS ON THE AGGREGATION AND DEFORMABILITY OF RED CELLS: EFFECT OF ABO BLOOD GROUPS Leopold Dintenfass

EFFECT OF ANIONIC AMPHOPHILES ON ERYTHROCYTE PROPERTIES D.E. McMillan and Nyle G. Utterback, Santa Barbara, CA, USA

PHARMACOLOGICAL APPROACHES TO BLOOD HEMORHEOLOGY IN CEREBROVASCULAR DISEASE Frank J. Nordt, Basel, Switzerland

SESSION 8: SURFACE HEMORHEOLOGY IN AGING AND DISEASE

Chairmen: Leonard Weiss, Buffalo, NY, USA; Jean-François Stoltz Vandoeuvre-Les-Nancy, France

CANCER CELL DAMAGE AT THE VASCULAR ENDOTHELIUM Leonard Weiss

BIOCHEMICAL AND ELECTROSTATIC CONSIDERATION IN PRIMARY PLATELET AGGREGATION Barry S. Coller, Stony Brook, NY, USA

FLUID DYNAMICS AS A FACTOR IN THE LOCALIZATION OF ATHEROGENESIS Robert M. Nerem, Houston, TX, USA

BLOOD CELL SURFACE PROPERTIES: CLINICAL AND PHARMACOLOGICAL ALTERATION Jean-François Stoltz

GENERAL DISCUSSION AND CLOSING REMARKS A.L. Copley and G.V.F. Seaman

For further information, please contact the Conference Director,
The New York Academy of Sciences
2 East 63rd Street
New York, New York 10021
(212) 838-0230
ANNOUNCEMENT

XII. EUROPEAN CONFERENCE ON MICROCIRCULATION

The Israel Academy of Sciences and Humanities

Jerusalem, Israel. 5.-10. September 1982

Conference President: Alex Silberberg

There will be 11 symposia, 12 oral communication sessions, 6 groupings of poster communications and 1 film session. Among the communications at the Conference, the following are of particular interest to the Readers of CLINICAL HEMORHEOLOGY.

SYMPOSIA

The Endoendothelial Fibrin Lining

Chairman: A.L. Copley (New York)
Lecturers: A.L. Copley (New York), S. Oka (Osaka), S.A. Barenberg (Wilmington), A. Henschen (Martinsried/Munich), S. Witte (Karlsruhe), P. Olsson (Stockholm), A. Silberberg (Rehovot), J.-F. Stoltz (Nancy), M. Tsuchiya (Tokyo), H.G. Lasch (Gelsen) and R. Gollwitzer (Martinsried/Munich)

Effects of Shear on Cellular Reactions in the Circulation

Chairman: D.E. Brooks (Vancouver)
Lecturers: D.E. Brooks (Vancouver), E.A. Evans (Vancouver), S. Chien (New York), M. Frojmovic (Montreal) and C.F. Dewey (Boston)

Arterial Hemodynamics and the Material Exchange of the Arterial Wall

Chairman: C.G. Caro (London)
Lecturers: R.M. Nerem (Houston), S. Chien (New York), E.B. Smith (Aberdeen), C.P. Winlove (London) and M.J. Lever (London)

Hemorheology

Chairman: G. Pallotti (Bologna)
Lecturers: M.A. Brunelli (Bologna), S. Cifaldi (Napoli), S. Coccheri (Bologna), M. D'Addato (Bologna), G. Pallotti (Bologna) and H. Schmid-Schönbein (Aachen)
Measurement of Blood Flow and Local Tissue Energy Production by Thermal Methods - Evaluation of Methodology

Chairmen: B. Blum (Tel Aviv), E. Betz (Tübingen) and W. Benari (Tel Aviv)
Lecturers: J. Grayson (Toronto), W. Müller-Schauenburg (Tübingen), M. Chen (Urbana), K. Holmes (Urbana), J.C. Chato (Urbana), A. Shitzer (Haifa), R. Wodick (Ulm), H.G. Klinger (Würzburg), G. Köbel (Tübingen), R. Eberhart (Dallas), J.B. Bassingthwaighte (Seattle), J. Seyiaz (Paris), H. Appel (Tübingen), H. Benzing (Tübingen), K. Golenhofen (Marburg), L. Priebe (Marburg), M.N. Shalit (Tel Aviv), T. Kaspi (Tel Aviv), V. Benari (Tel Aviv), B. Blum (Tel Aviv) and J.R. Parratt (Glasgow)

Platelet Aggregation and Interaction With the Vessel Wall

Chairman: A. Rotman (Rehovot)
Lecturers: F.A. Meyer (Rehovot), G. Marguerie (Paris), R.I. Handin (Boston), C.O. Esquivel (Malmö), J. Zahavi (Tel Aviv) and A. Eldor (Jerusalem)

The White Blood Cell

Chairman: P. Gaehtgens (Köln)
Lecturers: P. LaCelle (Rochester), P. Gaehtgens (Köln), L.H. Smaje (London), J. Fehr (Zürich) and S. Chien (New York)

Hemorheology and Hemodynamics
Microcirculation of the Gastro-Intestinal Tract and the Colon
Microcirculation of Tumors
The Endothelium
Flow of Blood Through the Microcirculation
The Flow of Platelets
Capillary Filtration and Permeability
Microcirculation of Muscle
Lymph Flow and Lymmphatics

ORAL COMMUNICATION SESSIONS

The Red Blood Cell
Microcirculation of the Brain
The Microcirculation in Diabetes
Clinical Hemorheology

POSTER COMMUNICATIONS (Major Groupings)

The Red Blood Cell
Microcirculation of the Brain
The Microcirculation in Diabetes
Clinical Hemorheology

FILM SESSION

Presentations so far by: M. Steinhausen (Heidelberg), M. Tsuchiya (Tokyo) and L.V. Schalin (Stockholm)

Address inquiries to: Mrs. Ruth Goldstein
The Aharon Katzir-Katchalsky Center of the Weizmann Institute of Science
Rehovot, Israel
ANNOUNCEMENT

THE IXTH INTERNATIONAL CONGRESS ON THROMBOSIS AND HAEMOSTASIS
(held under the auspices of the International Society on Thrombosis and Haemostasis)

will take place in

STOCKHOLM, SWEDEN 3 - 8 JULY 1983

Main topics:
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Coagulation
Blood-surface interactions
Platelets
Arachidonic acid metabolism and its inhibition
Natural and synthetic anticoagulants
Thromboembolism
Atherosclerosis
Haemorrhagic disorders
Immunology

Further information:
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IXth ISTH Congress, Stockholm Convention Bureau AB, Jakobs Torg 3,
S-111 52 Stockholm, Sweden. Telex 115 56. Telegrams: Congressus
ANNOUNCEMENT

3rd European Conference on Clinical Haemorheology
baden baden 24.-27.8.83

(H. Schmid-Schönbein, Aachen (W.Germany) Chairman of the Organizing Committee)

Coordinated with the 5th International Congress on Biorheology (which meets at the same place August 19-24, 1983) the 3rd ECCH will meet in the "Kongress-Haus" in Baden-Baden (W. Germany).

Patterned by previous conferences in Nancy and London, congress symposia, plenary lectures, free communications and poster demonstrations will serve as means of scientific exchange between clinical haemorheologists from all fields and theoreticians from various disciplines. Special emphasis will be put on in vivo-results, even when preliminary.

DEADLINE for submission of abstracts: MARCH 15, 1983.

All correspondence concerning the conference should be addressed to:

Mrs Maria Brendt
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Schneebergweg 211
D-5100 Aachen (W. Germany)