

# PROGRAM

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8:00: REGISTRATION

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## SESSION 1: ENGINEERING FUNDAMENTALS

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No.	TIME	TITLE	SPEAKER
1.1	8:30	Welcome	Narinder Singh
1.2	8:35	Introduction and historical overview	Dennis Doorly
1.3	8:45	Acquisition of imaging data	Raul Cetto
1.4	8:55	Constructing the model	Dennis Doorly
1.5	9:15	Physiological considerations - flow, surface, deformity, temperature, mucosal interface, nasal cycle	Jinxiang Xi
1.6	9:35	Models of flow (turbulence, steadiness, compressibility)	Kiao Inthavong
1.7	9:55	Interpreting simulation results	Guilherme Garcia
1.8	10:15	Software considerations - current and future	Manuel Burgos

10:35: MORNING TEA

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## SESSION 2: SIMULATION & CLINICAL IMPLICATIONS

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No.	TIME	TITLE	SPEAKER
2.1	11:00	Controversies, challenges and future directions in simulation	Jinxiang Xi
2.2	11:25	Correlating CFD with objectives clinical testing and physical models	Guilherme Garcia
2.3	11:45	CFD results for airflow in the normal nose	Dennis Frank-Ito
2.4	12:05	CFD results for airflow in the normal airway	David Wootton
2.5	12:25	Temperature, humidity and olfaction	Fabian Sommer
2.6	12:45	Ethnic variation	De Yun Wang

13:05: LUNCH

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## SESSION 3: CLINICAL

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No.	TIME	TITLE	SPEAKER
3.1	13:50	Drug delivery and particle deposition	Kiao Inthavong
3.2	14:02	Septal deviation	Catherine Rennie
3.3	14:14	Septal perforation	Joerg Lindemann
3.4	14:26	Inferior turbinate surgery and The Empty Nose Syndrome/ Atrophic rhinitis	De Yun Wang
3.5	14:38	The nasal valve	Neil Tolley
3.6	14:50	Virtual surgery - modifying the model	Manuel Burgos
3.7	15:02	Sinus surgery	Seung-Kyu Chung
3.8	15:14	The upper airway - pathology and surgery	David Wootton
3.9	15:31	CFD modelling: under CPAP and during nasal and oral breathing	Masaaki Suzuki

15:43: AFTERNOON TEA

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# PROGRAM CONTINUED

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## SESSION 4: FRONTIERS & NEW RESEARCH

No.	TIME	TITLE	SPEAKER
4.1	16:00	Physical Parameters determining Clinical Indications for CFD Simulations: The New Agreement of the International RIGA Consensus Conference on Nasal Airway Function Tests	Klaus Vogt
4.2	16:10	Predicting Patient-Reported Improvement Scores After Nasal Airway Obstruction Surgery Using Computational Fluid Dynamics Modeling	Dennis Frank-Ito
4.3	16:20	Airflow and particle deposition in large airway under sniff condition	Hadrien Calmet
4.4	16:30	The role of CFD in the pathogenesis of chronic rhinosinusitis	Seung-Kyu Chung
4.5	16:40	Ventilation of the Anterior Ethmoid, the Maxillary and Frontal Sinus with Special Consideration of the Ethmoid Infundibulum with Computational Fluid Dynamics (CFD)	Jochen Schachenreiter
4.6	16:50	Nasal-Geom, a free software for the nasal cavity reconstruction	Jose Luis Cercos-Pita
4.7	17:00	Nasal-flow: an automatised web service for the airflow analysis of the human upper airways	Ismael Rodriguez
4.8	17:10	Segmentation of the Nasal Cavities and Paranasal Sinuses Using Artificial Intelligence	Walter Koch
4.9	17:20	Analyses of nasal cavity flows based on highly-resolved CFD computations	Andreas Lintermann
4.10	17:30	Dimensionless Parameters to distinguish health from disease	Enrique Rojas
4.11	17:40	Virtual Surgery driven by Nondimensional Estimators	Enrique Rojas
4.12	17:50	A prospective CFD study assessing Retrosternal Goitres	Charlotte McIntyre
4.13	18:00	Study of Sensitivity and Specificity of Fully Automated CFD Solution in Patients Affected by Nasal Airway Obstruction (NAO)	Guillermo Sanjuan

**18:20: CONFERENCE CLOSE**

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