

**WEDNESDAY 28 APRIL 2010**

10:00 – 14:00	Registration	
14:00 – 18:00	<b>Workshop 1</b> : High frequency Ventilation <i>Room: Rotary</i>	<b>Workshop 2</b> : Simulation Scenarios: Acute Respiratory Failure and Difficult Airways <i>Room: Léman A</i>
18:00 – 19:00	Evening reception for all participants - <i>Lobby (sponsored by Draeger)</i>	

**THURSDAY 29 APRIL 2010**

08:00 – 12:00	<b>Workshop 3</b> : Non-invasive ventilation in the preterm infant: From nCPAP to NIPPV <i>Room: Rotary</i>	<b>Workshop 4</b> : Non-invasive ventilation in pediatric ICU: From basic to advances techniques <i>Room: Musique</i>	<b>Workshop 5</b> : How to use respiratory monitoring for improving mechanical ventilation <i>Room: Club</i>
10:00 – 13:30	Check-in and Registration		
12:15 – 13:15	Lunch Symposium: How can a ventilator help to avoid non-pulmonary sequelae in the infant? (sponsored by CareFusion) - <i>Room: des Congrès</i>		
13:30 – 13:45	Opening Remarks: <i>Peter C. Rimensberger - Room: Léman A</i>		
13:45 – 14:30	<b>Opening Lecture</b> : Defining research priorities for acute neonatal and pediatric lung disease in the year 2010? <i>Steven Abman - Room: Léman A</i>		
14:30 – 15:30	<b>Neonatal Respiratory Failure in 2010</b> - <i>Room: Léman A</i> Does understanding mechanisms allow preventing it? <i>Pierre-Henri Jarreau</i> The use of surfactant for RDS in 2010: «Guideline and Dilemmas» <i>Henri Halliday</i>		
15:30 – 16:00	Coffee break - <i>Exhibition Area</i>		
16:00 – 18:30	<b>Acute and Chronic Lung Disease in the Neonate</b> <i>Room: Léman A</i>	<b>Ventilator Synchronization during Ventilatory Assist</b> - <i>Room: des Congrès</i>	
19:00 – 21:00	Welcome reception - <i>Exhibition Area</i>		

**FRIDAY 30 APRIL 2010**

08:00 – 08:45	Physiologic Note: Pulmonary Circulation: How to assess, how to control? <i>Steven Abman - Room: Léman A</i>		
09:00 – 10:45	<b>The Developing Lung</b> <i>Room: Léman A</i>	<b>How to Chose an Appropriate Ventilator Mode</b> <i>Room: des Congrès</i>	
10:45 – 11:15	Coffee break - <i>Exhibition Area</i>		
11:15 – 12:40	<b>Poster walks</b> - <i>Room: Léman B &amp; C</i>		
12:45 – 14:30	Lunch break - <i>Exhibition Area</i>		
12:50 – 14:20	<b>Lunch Symposium: NAVA in the Clinical Setting</b> (sponsored by Maquet) - <i>Room: des Fêtes</i>		
14:30 – 15:15	<b>Key Note Lecture: The Morphometric basis of Lung function</b> <i>Ewald Weibel - Room: Léman A</i>		
15:15 – 16:00	Coffee break - <i>Exhibition Area</i>		
16:00 – 18:00	<b>Measuring and Targeting Tidal Volumes</b> <i>Room: Léman A</i>	<b>Sedation and Analgesia in the ICU</b> <i>Room: des Congrès</i>	
18:45	Departure for the evening dinner		

**SATURDAY 1 MAY 2010**

09:00 – 09:45	<b>Physiologic Note</b> : Cardio-Pulmonary Interactions - <i>Room: Léman A</i>		
09:45 – 10:15	Coffee break - <i>Exhibition Area</i>		
10:15 – 12:45	<b>Hot Topics in Pediatric and Neonatal Respiratory Care in 2010</b> - <i>Room: Léman A</i>		
	Closing Remarks: <i>Peter C. Rimensberger (Switzerland) - Room: Léman A</i>		

**PRE-CONFERENCE WORKSHOP****WEDNESDAY, APRIL 28, 2010**

14:00 - 18:00 <i>Room:</i> <i>Rotary</i>	<p>WORKSHOP 1</p> <p><b>High Frequency Ventilation</b></p> <p>Supported by unrestricted educational grants by <b>Acutronic, Draeger, Heinen+Löwenstein, NovaLung GmbH, SLE Ltd</b></p> <ul style="list-style-type: none"> <li>- Basic concepts on HFV</li> <li>- How do the various machines work</li> <li>- Lung protection and optimizing lung volumes during HFOV</li> <li>- Clinical application of HFOV in the neonate and in the pediatric patient</li> <li>- Hands-on on various ventilators</li> </ul> <p><i>Workshop-Leaders:</i> <i>Peter Rimensberger (Switzerland), David Tingay (Australia)</i></p>
14:00 - 18:00 <i>Room:</i> <i>Léman A</i>	<p>WORKSHOP 2</p> <p><b>Simulation Scenarios: Acute Respiratory Failure and Difficult Airways</b></p> <p>Supported by unrestricted educational grants by <b>Laerdal and Truphatek</b></p> <p><i>Workshop-Leaders: Ralf Huth, Stefan Gehrig, Bernhard Schmid, Sülha Demirakca (Germany)</i></p>

**THURSDAY, APRIL 29, 2010**

08:00 - 12:00 <i>Room:</i> <i>Rotary</i>	<p>WORKSHOP 3</p> <p><b>Non-invasive ventilation in the preterm infant: From nCPAP to NIPPV</b></p> <p>Supported by an unrestricted educational grants by <b>Ginevri, Hamilton Medical and Vtherm</b></p> <ul style="list-style-type: none"> <li>- Update on BPD and strategies for prevention</li> <li>- Clinical use of CPAP and NIPPV in the preterm infant</li> <li>- How to start nasal ventilatory support in the preterm infant</li> <li>- Hands-on on equipment (CPAP devices, drivers and ventilators) and interfaces</li> </ul> <p><i>Workshop-Leader: Amir Kugelmann (Israel)</i></p>
08:00 - 12:00 <i>Room:</i> <i>Musique</i>	<p>WORKSHOP 4</p> <p><b>Non-invasive ventilation in the pediatric ICU: From basic to advanced techniques</b></p> <p>Supported by an unrestricted educational grant by <b>Maquet</b></p> <ul style="list-style-type: none"> <li>- Basic concepts on NIV</li> <li>- How to begin NIV</li> <li>- Synchronisation during NIV</li> <li>- Failure Analysis</li> <li>- Common pediatric scenarios</li> </ul> <p><i>Workshop-Leaders: Marti Pons, Alberto Jose Medina (Spain)</i></p>
08:00 - 12:00 <i>Room:</i> <i>Club</i>	<p>WORKSHOP 5</p> <p><b>How to use respiratory monitoring for improving mechanical ventilation</b></p> <p>Supported by an unrestricted educational grants by <b>Radiometer and Stephan GmbH</b></p> <ul style="list-style-type: none"> <li>- Basic understanding of respiratory mechanics and gas exchange</li> <li>- What can I monitor at bedside (techniques and devices)</li> <li>- How to use respiratory monitoring for first ventilator settings</li> <li>- How to use respiratory monitoring for improving ventilation</li> <li>- What else can respiratory monitoring tell me at bedside</li> <li>- Hands-on illustrations with lung models and ventilation simulation</li> <li>- Demonstration of new teaching tools about mechanical ventilation</li> </ul> <p><i>Workshop-Leaders: Peter Rimensberger (Switzerland), Peter Schaller (Germany), Franz Wirth (Germany)</i></p>

## MAIN CONFERENCE

### THURSDAY, APRIL 29, 2010

10:00 - 13:30	<b>Check-in and Registration</b>	
12:15 - 13:15	Lunch Symposium (sponsored by <b>CareFusion</b> ) <b>How can a ventilator help to avoid non-pulmonary sequelae in the infant?</b> <i>Nelson Claure (USA) and Tom Leenhoven (The Netherlands)</i> <i>Room: des Congrès</i>	
13:30 - 13:45	<b>Opening Remarks</b> <i>Peter C. Rimensberger (Switzerland)</i> <i>Room: Léman A</i>	
13:45 - 14:30	Opening Lecture <b>Defining research priorities for acute neonatal and pediatric lung disease in the year 2010?</b> <i>Steven Abman (USA)</i> <i>Room: Léman A</i>	
14:30 - 15:30	<b>Neonatal Respiratory Failure in 2010</b> <i>Chairs: Amir Kugelman (Israel) and David Tingay (Australia)</i>	
14:30 - 15:00	<b>Ventilator induced / associated lung injury in the NICU: Does understanding mechanisms allow preventing it?</b> <i>Pierre-Henri Jarreau (France)</i> <i>Room: Léman A</i>	
15:00 - 15:30	<b>The use of surfactant for RDS in 2010: "Guidelines and Dilemmas"</b> <i>Henry Halliday (Ireland)</i> <i>Room: Léman A</i>	
15:30 - 16:00	Coffee break	
	<i>Room: Léman A</i>	<i>Room: des Congrès</i>
16:00 - 17:15	<b>Acute and Chronic Lung Disease in the Neonate</b> <i>Chairs: Paolo Tagliabue (Italy) and Laurent Storme (France)</i>	16:00 - 17:15 <b>Ventilator Synchronization during Ventilatory Assist</b> <i>Chairs: Peter Rimensberger (Switzerland) and Mark Heulitt (USA)</i>
16:00 - 16:25	<b>Non-invasive ventilation in the neonate</b> <i>Amir Kugelmann (Israel)</i>	16:00 - 16:25 <b>Ventilatory assist: Basic principals and technical needs</b> <i>Mark Heulitt (USA)</i>
16:25 - 16:50	<b>Postnatal corticosteroids in preterm infants with RDS and / or BPD: Do we need to think about a patient specific approach?</b> <i>Henry Halliday (Ireland)</i>	16:25 - 16:50 <b>Ventilatory assist in the operating room</b> <i>Achim von Goedecke (Austria)</i>
16:50 - 17:15	<b>Ventilating the BPD patient</b> <i>Steven Abman (USA)</i>	16:50 - 17:15 <b>Ventilatory assist in the neonate</b> <i>Anne Greenough (UK)</i>

**THURSDAY, APRIL 29, 2010**

	<i>Room: Léman A</i>		<i>Room: des Congrès</i>
17:15 - 17:30	<b>OP1 / 40:</b> Correlation between cytokines, bronchopulmonary dysplasia and modality of ventilation in preterm newborns: Improvement with melatonin treatment <i>Eloisa Gitto (Italy)</i>	17:15 - 17:45	<b>Round Table Discussion</b>
17:30 - 17:45	<b>OP 1 / 7:</b> Extracellular alveolar inhibition of secretory phospholipase A2 in neonatal and pediatric lung injury <i>Daniele De Luca (Italy)</i>		
17:45 - 18:00	<b>OP 1 / 5:</b> Lung recruitment manoeuvre with PEEP in preterm infants undergoing volume guarantee (VG) ventilation <i>Gianluca Lista (Italy)</i>	17:45 - 18:00	<b>OP 2 / 39:</b> Electrical impedance measurements for estimation of tidal volumes in neonatal piglets <i>Florian Kurth (Germany)</i>
18:00 - 18:15	Industry Presentation by Hamilton Medical: <b>Technical evolution of nCPAP-systems</b> <i>Ralf Huth (Germany)</i>	18:00 - 18:15	<b>OP 2 / 41:</b> Assessment of PEEP and posture-induced changes pulmonary mechanics by FOT in ventilated newborns <i>Emanuela Zannin (Italy)</i>
18:15 - 18:30	Industry Presentation by Draeger: <b>Noise stress during non-invasive ventilation, a hidden factor</b> <i>Frank van Rooyen (Germany)</i>	18:15 - 18:30	<b>OP 2 / 42:</b> Automated respiratory cycles selection improves the variability of respiratory mechanics monitoring <i>Vincent Rigo (Switzerland)</i>
19:00 - 21:00	<b>Welcome Reception in the Exhibition Area</b>		

## FRIDAY, APRIL 30, 2010

08:00 - 08:45	Physiologic Note <b>Pulmonary Circulation: How to assess, how to control?</b> <i>Steven Abman (USA)</i> <i>Room: Léman A</i>		
	<i>Room: Léman A</i>		<i>Room: des Congrès</i>
09:00 - 10:45	<b>The developing lung</b> <i>Chairs: Thomas Berger (Switzerland) and Laurent Storme (France)</i>	09:00 - 10:00	<b>How to choose an appropriate ventilator mode</b> <i>Chair: Peter Rimensberger (Switzerland) and Ralph Huth (Germany)</i>
09:00 - 09:35	<b>Angiogenesis in the developing lung</b> <i>Steven Abman (USA)</i>	09:00 - 09:30	<b>RSV Bronchiolitis: Which ventilator approach to choose?</b> <i>Anne Greenough (UK)</i>
09:35 - 10:10	<b>Influence of maturation of the lungs on susceptibility for VILI</b> <i>Brian Kavanagh (Canada)</i>	09:30 - 10:00	<b>How to choose the right patient for HFV</b> <i>Casper Bollen (The Netherlands)</i>
10:10 - 10:45	<b>New insights in perinatal lung water resorption and its clinical consequences</b> <i>Riccardo Pfister (Switzerland)</i>	10:00 - 10:15	<b>OP 3 / 19:</b> Individual patient data meta-analysis: Novel approach to interpreting hfov trials in preterm infants <i>Filip Cools (Belgium)</i>
		10:15 - 10:30	<b>OP 3 / 34:</b> Combined conventional and high-frequency oscillatory ventilation in an animal model of lung injury <i>Atul Malhotra (Australia)</i>
		10:30 - 10:45	<b>OP 3 / 8:</b> Nebulised iloprost and noninvasive ventilation for postneonatal hypoxaemic respiratory failure with pulmonary hypertension: A pilot experience <i>Daniele De Luca (Italy)</i>
10:45 - 11:15	Coffee break		
11:15 - 12:40	<b>Poster Walks – Room Léman B &amp; C</b> <i>Facilitators : Mark Heulitt, Paolo Tagliabue, Ralf Huth, Peter Rimensberger</i>		
12:45 - 14:30	Lunch break in the Exhibition Area		
12:50 - 14:20	Lunch Symposium (sponsored by <b>Maquet</b> ) <b>NAVA in the Clinical Setting</b> <i>Jennifer Beck (Canada), Roberta Costa (Italy) and Peter Rimensberger (Switzerland)</i> <i>Room: des Fêtes</i>		
14:30 - 15:15	Key Note Lecture <b>The morphometric basis of lung function</b> <i>Ewald Weibel (Switzerland)</i> <i>Room: Léman A</i>		
15:15 - 16:00	Coffee break		

**FRIDAY, APRIL 30, 2010**

	Room: Léman A		Room: des Congrès
16:00 - 17:00	<b>Measuring and Targeting Tidal Volumes</b> <i>Chairs: Paolo Tagliabue (Italy) and Mark Heulitt (USA)</i>	16:00 - 16:30	<b>Sedation and Analgesia in the ICU</b> <i>Chairs: Süha Demirakca and Ralph Huth (Germany)</i>
16:00 - 16:30	<b>Reliability of tidal volume measurements</b> <i>Mark Heulitt (USA)</i>	16:00 - 16:30	<b>Inhaled anesthetics in the ICU during mechanical ventilation</b> <i>Andrew Wolf (UK)</i>
16:30 - 17:00	<b>Volume targeted ventilation</b> <i>Nelson Claure (USA)</i>	16:30 - 16:45	<b>OP 5 / 16:</b> Randomised trial of post extubation “elective” versus “rescue” nasal continuous positive airways pressure in infants following cardiac surgery <i>Ruth Wakeman (United Kingdom)</i>
		16:45 - 17:00	<b>OP 5 / 11:</b> Effects of VT <sub>CO2</sub> and C <sub>dyn</sub> guided lung recruitment and open lung ventilation on cardiac output <i>Angela Hanson (Sweden)</i>
17:00 - 17:15	<b>OP 4 / 26:</b> A pilot study of the effect of different lung recruitment manoeuvres at birth on gas exchange, lung mechanics and regional volume in a preterm lamb model <i>David Tingay (Australia)</i>	17:00 - 17:15	<b>OP 5 / 20:</b> Application of lung protective ventilation strategies in clinical practice <i>Casper Bollen (Netherlands)</i>
17:15 - 17:30	<b>OP 4 / 14:</b> Proof of concept: Mid-frequency ventilation in a live animal model <i>Mark Heulitt (United States)</i>	17:15 - 17:30	<b>OP5 / 30:</b> Results from early repair of congenital diaphragmatic hernia - should the debate over the timing of repair be revisited? <i>Jan Kelly (New Zealand)</i>
17:30 - 17:45	Industry Presentation by SLE Ltd: <b>Noise reduction in the NICU during nCPAP using a novel variable flow nCPAP generator</b>	17:30 - 17:45	Industry Presentation by Acutronic: <b>Inhaled anesthetic gases: The Anaconda System</b> <i>Roland Hotz (Switzerland)</i>
17:45 - 18:00	Industry presentation by Draeger: <b>The benefits of volume guarantee in the NICU</b> <i>Silke Bahr (Germany)</i>	17:45 - 18:00	Industry Presentation by Maquet Germany: <b>NO revival in the air</b> <i>Rainer Köbrich (Germany)</i>
18:45	Departure for the Evening Party Dinner Fairmont Montreux Palace Hotel Main Entrance		

**SATURDAY, MAY 1, 2010****Room: Léman A**

09:00 - 09:45	Physiologic Note <b>Cardio-Pulmonary Interactions</b> <i>Thomas Luecke (Germany)</i>
09:45 - 10:15	Coffee break
10:15 - 12:45	<b>Hot topics in pediatric and neonatal respiratory care in 2010</b> <i>Chairs: Paolo Tagliabue (Italy) and Thomas Berger (Switzerland)</i>
10:15 - 10:45	<b>Respiratory care in the delivery room: "Gentle" or something else?</b> <i>Arjan te Pas (The Netherlands)</i>
10:45 - 11:15	<b>Suctioning the intubated neonate and infant</b> <i>David Tingay (Australia)</i>
11:15 - 11:45	<b>What about the evidence from ventilation trials?</b> <i>Brian Kavanagh (Canada)</i>
11:45 - 12:45	<b>Pediatric mechanical ventilation: Project for an European multicentre study</b> <i>Martin Kneyber (The Netherlands)</i>
	<b>Closing Remarks</b> <i>Peter C. Rimensberger (Switzerland)</i>