RESUSCITATION 2017
Society saving lives
Freiburg im Breisgau, Germany
28 - 30 September 2017

Scientific programme

WWW.ERC.EDU
WWW.RESUSCITATION2017.EU

#erc17freiburg
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European Resuscitation Council, (Past) Director Congresses

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University of Cologne, Cologne, Germany

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Agia Olga General Hospital, Nea Ionia, Greece

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Violetta Raffay
Municipal Institute for Emergency Medicine Novi Sad, Serbia

Joachim Schlieber
AUVA Trauma Center, Salzburg, Austria

Jasmeet Soar
Southmead Hospital, Bristol, United Kingdom

Patrick Van de Voorde
Ghent University, Ghent University Hospital, Ghent, Belgium
Federal Department of Health, Belgium
Congress Committee

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Starship Paediatric Emergency Department, Starship Children’s Hospital, New Zealand

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Bovenden, Germany

John Ballance
Hereford, UK

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University of Vigo, Spain

Farzin Beygui
Caen University Hospital

Tonje Soraas Birkenes
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*University of Medicine and Pharmacy Gr.T. Popa Iasi  
University County Hospital Sf. Spiridon Iasi , Romania*

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*Heart of England NHS Foundation Trust, Birmingham, United Kingdom*

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*Centre for Evidence-Based Practice, Belgian Red Cross-Flanders, Belgium*

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*University Hospital Southampton, United Kingdom*

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*University Hospitals Leicester, University of Leicester and Resuscitation Council (UK)*

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*Lund University, Lund, Sweden*

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*Plymouth hospitals NHS trust*

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*Royal Melbourne Hospital Clinical School, The University of Melbourne*

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*Rescu, Li Ka Shing Knowledge Institute, St Michael’s Hospital, University of Toronto, Toronto Ontario Canada*

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*University of Freiburg, Freiburg*

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*University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, USA*

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*New Zealand Resuscitation Council*

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*University of Michigan Health System, USA*

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Gavin Perkins  
*University of Warwick and Heart of England NHS Foundation Trust, Warwick, United Kingdom*

Charles-Christoph Roehr  
*Oxford University Hospitals, NHS, United Kingdom*

Marc Sabbe  
*University of Leuven, Leuven, Belgium*

Claudio Sandroni  
*Department of Anaesthesiology and Intensive Care - Catholic University School of Medicine, Rome, Italy*

Ferenc Sari  
*Clinical Training Center, Skellefteå, Sweden*
Pre-congress meeting
Thursday September 28

Educator meeting (on invitation only)  Room K1  09:00 - 12:30
Chaired by Robert Greif & Andy Lockey

Intro and overview of the Educator Meeting
Robert Greif (Switzerland)

Role of the Educator and the new ERC framework for peer review
TBD

The "new" ERC GIC 2017
Robert Greif (Switzerland)

Coffee

Faculty and candidate management for the ERC teaching staff
Andy Lockey (United Kingdom)

Quality assurance and auditing for Educators and the GIC
Robert Greif (Switzerland)

Panel Discussion with the WGE
Begrüßung und Eröffnung

Halle 4  08:45 - 09:00

Bernd W. Böttiger
Vorstands vorsitzender des Deutschen Rates für Wiederbelebung

Heidrun Thaiss
Leiterin der Bundeszentrale für gesundheitliche Aufklärung

Zukunftswerkstatt oder bereits Realität?

Chaired by Matthias Fischer & Stefan Beckers

Halle 4  09:00 - 10:30

Smartphone bei der Reanimation: Die Lösung?

Michael Müller

ECLS - präklinisch Realität?

Georg Trummer

Traumatischer Kreislaufstillstand: Was ist anders?

Matthias Münzberg

Reanimation in der täglichen Praxis

Room K7  09:00 - 10:30

Chaired by Christoph Eich & Hans-Jörg Busch

Kinderreanimation

Florian Hoffmann

ROSC und dann? Postreanimationsbehandlung beginnt am Einsatzort!

Hans-Jörg Busch

Spezielle Umstände bei der Reanimation: Was ist anders?

Claas T. Buschmann

Workshops

Strukturierte Übergabe von Postreanimationspatienten
Jörg Bayer, Thorsten Hammer, Frank Koberne, Timo Schädler, Bonaventura Schmid, Tobias Wengenmayer

Fokussierte Ultraschalluntersuchung bei der Reanimation
Raoul Breitkreutz, Caroline Busche, Jörg Hanusch, Jens Schneider

Zwischenfallmanagement in der Luftrettung
Frank Lerch, Daniel Schmitz, Matthias Roth

10:30 - 11:00  Coffee break

Education & Training

Halle 4  11:00 - 12:30

Chaired by Volker Wenzel & Bernhard Gliwitzky

Implementierung der Leitlinien: Wo stehen wir?
Uwe Kreimeier

Der neue ALS-Kurs
Carsten Lott

Auswahl und Ausbildung der Ausbilder
Ralf Bischoni
GRC-Projekte

Room K7 11:00 - 12:30 —

Chaired by Bernd W. Böttiger & Karl Heinrich Scholz

Cardiac Arrest Center: Warum brauchen wir CAC?
Jan-Thorsten Gräsner

Cardiac Arrest Center: Umsetzung aus Sicht eines Uniklinikums
Markus Roessler

Kids save lives
Bernd W. Böttiger

Nationales Aktionsbündnis Wiederbelebung (NAWIB)
Karl Heinrich Scholz

Workshops

Halle 3 11:00 - 12:30 —

Strukturierte Übergabe von Postreanimationspatienten
Jörg Bayer, Thorsten Hammer, Frank Koberne, Timo Schädler,
Bonaventura Schmid, Tobias Wengenmayer

Nicht-technische Fertigkeiten bei der Reanimation
Markus Schmidt, Matthias Roth

Zwischenfallmanagement in der Luftrettung
Frank Lerch, Daniel Schmitz, Matthias Roth

12:30 - 13:00 Lunch (only for participants of GRC sessions)
**European Trauma Course - Joint Session**

Chaired by Anatolij Truhlář & Pierre Carli

**Resuscitative thoracotomy - what is the best access?**

Marc Sabbe (Belgium)

**Trauma network - improving patients outcome.**

Jonathan Tilsed (United Kingdom)

**Teaching strategies in trauma management.**

Karl Thies (United Kingdom)

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**Ethical Challenges**

Chaired by Leo Bossaert & Silvija Hunyadi-Antičević

**Patient autonomy in Europe: the law and the practice** (living will, patient preferences).

Spyros Mentzelopoulos (Greece)

**Medical-centered and patient-/family-centered ethics: a dynamic balance.**

Kirstie Haywood (United Kingdom)

**Early prognostication. Is it possible? Is it helpful?**

Claudio Sandroni (Italy)

---

**Free Paper Session 1 - dispatch**

Chaired by Michael Baubin & Pierre Mols

**AS01:**

**AS02:**

**AS03:**

**AS04:**

**AS05:**

**AS06:**

**AS07:**

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**BLS Session**

Chaired by Joachim Schlieber & Sanna Hoppu

**What drives blood flow during CPR?**

Marios Georgiou (Cyprus)

**Compression only CPR - good or bad?**

Gavin Perkins (United Kingdom)

**Adjuncts to improve CPR effectiveness.**

Jas Soar (United Kingdom)
Free Paper Session 2 - paediatrics/neonatels

Chaired by Jonathan Wyllie & Ian Maconochie

AS08:

AS09:

AS10:

AS11:

AS12:

AS13:

AS14:

Workshop 1: Focused Sonography during CPR

Instructors: Raoul Breitkreutz (Germany)
Caroline Busche (Germany)
Jörg Hanusch (Germany)
Tobias Schröder (Germany)
Damjanovic Domagoj (Germany)

Room K6 13:00 - 14:30

Workshop A: Crisis Resource Management in HEMS missions

Instructors: Frank Lerch
Daniel Schmitz
Matthias Roth
Stephanie Schmidt
Sebastian Kiefer
Steffen Götz

Halle 3 13:00 - 14:30

Thursday September 28

Instructors:

Helicopter 13:00 - 14:30

Workshop 1: Focused Sonography during CPR

Instructors: Raoul Breitkreutz (Germany)
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Room K6 13:00 - 14:30

Workshop A: Crisis Resource Management in HEMS missions

Instructors: Frank Lerch
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Matthias Roth
Stephanie Schmidt
Sebastian Kiefer
Steffen Götz

Halle 3 13:00 - 14:30

Thursday September 28

Instructors:

Helicopter 13:00 - 14:30
CPR Competition (1)

First round of the competition
13.00-13.30 Country 1
Judges:

13.30-14.00 Country 2
Judges:

14.00-14.30 Country 3
Judges:

14:30 - 15:00              Coffee break

ALS Session

Chaired by Janusz Andres  
\textit{Controversies in ALS.}
Charles Deakin (United Kingdom)

Duration of traditional ALS - when to stop?
Kjetil Sunde (Norway)

Hyperinvasive approaches to CPR - are they worthwhile?
Lionel Lamhaut (France)

Red Cross - Joint Session

Chaired by Jacques Delchef  
\textit{Implementation of ILCOR/ERC guidelines into IFRC International and Red Cross guidelines 2016.}
Nici Singletary (USA)

\textit{Contextualisation of guidelines.}
Emmy de Buck (Belgium)

First Aid and the community.
Pascal Cassan (France)

Paediatrics - Neonatal

Chaired by Ian Maconachie & Kevin Nation  
\textit{European Paediatric Basic Life Support - is there a need?}
Ian Maconachie (United Kingdom)

\textit{Special circumstances - how special?}
Richard Aickin (New Zealand)

\textit{Guidelines and courses - a perfect match?}
Patrick Van de Voorde (Belgium)
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<th>Paper Session 3 - Community Response to Cardiac Arrest</th>
<th>Room K9 15:00 - 16:30</th>
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<td>Chaired by Freddy Lippert &amp; Simon Attard</td>
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<tr>
<th>Paper Session 4 - Best Education</th>
<th>Room K6 15:00 - 16:30</th>
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<td>Chaired by Monika Grunfeld</td>
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</table>
Workshop 2: Learning conversation

Instructors: 
Robert Greif (Switzerland)
TBD

Halle 3  15:00 - 16:30

Workshop B: Crisis Resource Management in HEMS missions

Instructors: 
Frank Lerch (Germany)
Daniel Schmitz (Germany)
Matthias Roth (Germany)
Stephanie Schmidt (Germany)
Sebastian Kiefer (Germany)
Steffen Götz (Germany)

Helicopter  15:00 - 16:30

CPR Competition (2)

First round of the competition
15.00-15.30 Country 4
Judges:

15.30-16.00 Country 5
Judges:

16.00-16.30 Country 6
Judges:

Opening Ceremony

Chaired by Jerry Nolan & Gavin Perkins
Halle 4  16:45 - 18:00

Opening by ERC Chair and Chair of Scientific Committee

ERC Research net / EU funding

German Resuscitation Council welcome

School children CPR

Safar lecture
Peter Morley (Australia)
Paediatrics

Chaired by Vinay Nadkarni Halle 4 09:00 - 10:30
How to teach to perform/advise on CPR?
Vinay Nadkarni (USA)

Taking paediatric critical care to the ED.
Patrick Van de Voorde (Belgium)

Outcomes in paediatric CPR - What are we looking for?
Ian Maconachie (United Kingdom)

ESICM - Joint Session

Chaired by Jasmeet Soar & Alain Cariou Room K7 09:00 - 10:30
PCI after cardiac arrest.
TBC Alain Cariou (France)

Oxygenation and ventilation after ROSC.
Jerry Nolan (United Kingdom)

Prognostication.
Claudio Sandroni (Italy)

Dispatcher

Chaired by Michael Baubin & Pierre Mols Room K1 09:00 - 10:30
T-CPR for paediatric resuscitation.
Richard Aickin (New Zealand)

How to enhance dispatcher recognition of cardiac arrest?
Maaret Castren (Finland)

Integrating ambulance dispatch with mobile phones.
Rudy Koster (The Netherlands)
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 09:00 - 10:30 | Free Paper Session 6 - first aid  
Chaired by Pascal Cassan & John Ballance  
Room K6  
AS36: |
| 09:00 - 10:30 | Workshop C: Crisis Resource Management in HEMS missions  
Instructors:  
Helicopter  
Frank Lerch (Germany)  
Daniel Schmitz (Germany)  
Matthias Roth (Germany)  
Stephanie Schmidt (Germany)  
Sebastian Kiefer (Germany)  
Steffen Götz (Germany)  
Workshop C: Crisis Resource Management in HEMS missions  
Halle 3  
AS40: |
| 10:30 - 11:00 | Coffee break  
Instructors:  
Helicopter  
AS41: |
| 10:30 - 11:00 | CPR Competition (3)  
First round of the competition  
09.00-10.30 Country 7  
Judges:  
10.30-11.00 Country 8  
Judges:  
11.00-12.30 Country 9  
Judges:  
CPR Competition (3)  
Halle 3  
AS42: |
| 10:30 - 11:00 | Workshop 3: Debriefing of OHCA and other critical clinical incidents  
Organised by SAFER  
Halle 3  
AS37: |
| 10:30 - 11:00 | Workshop 3: Debriefing of OHCA and other critical clinical incidents  
Organised by SAFER  
Halle 3  
AS38: |
| 10:30 - 11:00 | Workshop 3: Debriefing of OHCA and other critical clinical incidents  
Organised by SAFER  
Halle 3  
AS39: |
| 10:30 - 11:00 | Workshop 3: Debriefing of OHCA and other critical clinical incidents  
Organised by SAFER  
Halle 3  
AS40: |
Neonatals

**Chaired by Jonathan Wyllie**

Newborn Life Support and simulation - do we have the tools we need?
*John Madar (United Kingdom)*

Advanced resuscitation of the newborn infant course - is one approach feasible?
*Joe Fawke (United Kingdom)*

Newborn resuscitation equipment - state of the art.
*Charles-Christoph Roehr (United Kingdom)*

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**ESA - Joint Session**

**Chaired by Bernd Böttiger & Adriana Boccuzzi**

Cardiac arrest in the operating room.
*Janusz Andres (Poland)*

Airway management.
*Bernd Böttiger (Germany)*

Using anaesthetic drugs to protect the brain.
*Michael Fries (Germany)*

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**How to get published?**

**Chaired by Laurie Morrison & Jan-Thorsten Gräsner**

Room K1 09:00 - 10:30

What makes a good paper?
*Jerry Nolan (United Kingdom)*

How to write a good peer review?
*Gavin Perkins (United Kingdom)*

Bibliometrics.
*Peter Morley (Australia)*

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**Free Paper Session 7 - ALS**

**Chaired by Ferenc Nagy & Charles Deakin**

Room K9 09:00 - 10:30

AS43:

AS44:

AS45:

AS46:

AS47:

AS48:

AS49:
Free Paper Session 8 - ethics, end of life
Chaired by Leo Bossaert & Carlo Clarens
Room K6  11:00 - 12:30

AS50:

AS51:

AS52:

AS53:

AS54:

AS55:

AS56:

Workshop 4:
Effective teaching: importance of learning climate and goals
Instructors
Robert Greif  (Switzerland)
Monika Grünfeld  (Slovenia)

Workshop D: Crisis Resource Management in HEMS missions
Instructors:  Helicopter  11:00 - 12:30
Frank Lerch  (Germany)
Daniel Schmitz  (Germany)
Matthias Roth  (Germany)
Stephanie Schmidt  (Germany)
Sebastian Kiefer  (Germany)
Steffen Götz  (Germany)

CPR Competition (4)
Halle 3  09:00 - 10:30
First round of the competition
09.00-10.30  Country 7
Judges:
10.30-11.00  Country 8
Judges:
11.00-12.30  Country 9

12:30 - 14:00 Lunch
13:00 - 14:00 Poster tours 1 - 10
12:30 - 14:00 Trainee touchpoint  (Room K9)
12:30 - 14:00 NRC meeting  (Room K6)
Public awareness, does it help?
Natale Danielle Brunetti (Italy)

Networks for STEMI.
Patric Goldstein (France)

Prehospital treatment of ischemia in ACS.
Farzin Beygui (France)

Pro-con Debates

Prevent fever after cardiac arrest but don’t use hypothermia.
Pro: Hans Friberg (Sweden)
Con: Kjetil Sunde (Norway)

Lidocaine is the first choice drug for the treatment of shock-refractory VF.
Pro: Jas Soar (United Kingdom)
Con: Clifton Calloway (USA)

How do we evaluate evidence?
Laurie Morrison (Canada)

How to become involved?
Robert Neumar (USA)
Free Paper Session 10 - paediatrics & neonatels

Chaired by Ian Maconachie & Adeline Pereira  Room K6  14:00 - 15:30

AS64:

AS65:

AS66:

AS67:

AS68:

AS39:

AS70:

Workshop 5: Kids save lives

Instructors  Halle 3  14:00 - 15:30

Bernd Böttiger  (Germany)
Federico Semeraro  (Italy)

Workshop E: Crisis Resource Management in HEMS missions

Instructors  Helicopter  11:00 - 12:30

Frank Lerch  (Germany)
Daniel Schmitz  (Germany)
Matthias Roth  (Germany)
Stephanie Schmidt  (Germany)
Sebastian Kiefer  (Germany)
Steffen Götz  (Germany)
15:30 - 16:00  Coffee break

Best of the Best Abstracts

Chaired by Jerry Nolan & Maaret Castren  Halle 4  16:00 - 17:30

Judged by Kevin Nation, Peter Morley & Anthony Handley

BoB1
TBA

BoB2
TBA

BoB3
TBA

BoB4
TBA

BoB5
TBA

BoB6
TBA

Round-Table Discussion

Chaired by Jasmeet Soar & Michael Müller  Room K7  16:00 - 17:30

ECMO.
Jas Soar (United Kingdom)
Georg Trummer (Germany)
Bob Neumar (USA)
Laurie Morrison (Canada)
Patrick Van de Voorde (Belgium)
Alain Cariou (France)

Community takes care.
Michael Müller (Germany)
Robert Greif (Switzerland)
Ulrich von Kirchbach (Germany)
Kirstie Haywood (United Kingdom)

Kids Save Lives

Chaired by Pierre Carli & Diana Cimpoesu  Room K1  16:00 - 17:30

Kids save lives with first aid.
Emmy de Buck (Belgium)

Kids save lives around the world.
Federico Semeraro (Italy)

ERC initiatives to help kids to save lives.
Bernd Böttiger (Germany)
<table>
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<th>Free Paper Session 11 - BLS</th>
<th>Room K9  16:00 - 17:30</th>
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<tr>
<td>Chaired by Violetta Raffay &amp; Viktor Moroz</td>
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<th>Free Paper Session 12 - ACS</th>
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Workshop 6: Focused Sonography during CPR

Instructors
Raoul Breitkreutz (Germany)
Caroline Busche (Germany)
Jörg Hanusch (Germany)
Tobias Schröder (Germany)
Damjanovic Domagoj (Germany)

Workshop F: Crisis Resource Management in HEMS missions

Instructors
Frank Lerch (Germany)
Daniel Schmitz (Germany)
Matthias Roth (Germany)
Stephanie Schmidt (Germany)
Sebastian Kiefer (Germany)
Steffen Götz (Germany)
### First Aid

**Chaired by Jozef Koppl**

**Halle 4  09:00 - 10:30**

- Gaps in evidence concerning first aid and how to fill the gaps.  
  Nici Singletary (USA)

- Guideline development - more than evidence alone.  
  Emmy de Buck (Belgium)

- The best implementation strategies for society.  
  Pascal Cassan (France)

### ESC - Joint Session

**Chaired by Nikolaou Nikolaos & Leo Bosaert**

**Room K7  09:00 - 10:30**

- Is sudden death so sudden?  
  Charles Deakin (United Kingdom)

- Prevention of sudden death - society in collaboration with medicine.  
  Jan-Thorsten Gräsner (Germany)

- Refractory OHCA - CPR from scene to hospital.  
  Alain Cariou (France)

### EuSEM - Joint Session

**Chaired by Maaret Casten & Carmen Gasco**

**Room K1  09:00 - 10:30**

- To be a leader.  
  Marc Sabbe (Belgium)

- To be led.  
  Maaret Castren (Finland)

- Is it different if the patient is a child?  
  Patrick Van de Voorde (Belgium)

### EuReCa Meeting

**Chaired by Jan-Thorsten Gräsner**

**Room K6  09:00 - 10:30**

### Workshop 7:

**Debriefing of OHCA and other critical clinical incidents**

**Organised by Safer**

**Halle 3  09:00 - 10:30**

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**What’s new?**

**Chaired by Peter Morley & John Ballance**

**Room K9  09:00 - 10:30**

**COSCA**

- Kirstie Haywood (United Kingdom)

- Gaps in science.  
  Gavin Perkins (United Kingdom)

- What makes us ROC?  
  Laurie Morrison (Canada)

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**Saturday September 30**
Workshop G: Crisis Resource Management in HEMS missions

Instructors
Frank Lerch (Germany)
Daniel Schmitz (Germany)
Matthias Roth (Germany)
Stephanie Schmidt (Germany)
Sebastian Kiefer (Germany)
Steffen Götz (Germany)

Helicopter 09:00 - 10:30

10:30 - 11:00 Coffee break

Young Investigators Competition

Chaired by Gavin Perkins & Hildigunnur Svavarsdottir Room K7 09:00 - 10:30
Judged by Kirstie Haywood, Laurie Morrison, Vinay Nadkarni & Bernd Böttiger

Young investigator 1
Young investigator 2
Young investigator 3
Young investigator 4
Young investigator 5
Young investigator 6

Education

Chaired by Freddy Lippert & Robert Greif Halle 4 11:00 - 12:30

Teaching the community to talk with a dispatcher in CA situations.
Tonje B. Soraas (Norway)

NTS in CA training.
Carsten Lott (Germany)

How to teach children best CPR.
Andrew Lockey (United Kingdom)
The hospital response to cardiac arrest.
Peter Morley (Australia)

Optimal configuration for first responders.
Michael Müller (Germany)

Update on the European Resuscitation Academy.
Maaret Castren (Finland)

TED talking.
Koen Monsieurs (Belgium)

Engaging children.
Federico Semeraro (Italy)

Engaging those that are hard to reach.
Robert Greif (Switzerland)

Systems

Chaired by Anatolij Truhlář & John Ballance
Room K1 11:00 - 12:30

The hospital response to cardiac arrest.
Peter Morley (Australia)

Optimal configuration for first responders.
Michael Müller (Germany)

Update on the European Resuscitation Academy.
Maaret Castren (Finland)

How to engage?

Chaired by Carl Gwinnutt & Gamal Eldin Khalifa
Room K9 11:00 - 12:30

TED talking.
Koen Monsieurs (Belgium)

Engaging children.
Federico Semeraro (Italy)

Engaging those that are hard to reach.
Robert Greif (Switzerland)

Free Paper Session 13

Chaired by Marios Georgiou & Kevin Nation
Room K6 11:00 - 12:30

AS85:

AS86:

AS87:

AS88:

AS89:

AS90:

AS91:
Workshop 8: Focused Sonography during CPR
Instructors
- Raoul Breitkreutz (Germany)
- Caroline Busche (Germany)
- Jörg Hanusch (Germany)
- Tobias Schröder (Germany)
- Damjanovic Domagoj (Germany)

Workshop H: Crisis Resource Management in HEMS missions
Instructors
- Frank Lerch (Germany)
- Daniel Schmitz (Germany)
- Matthias Roth (Germany)
- Stephanie Schmidt (Germany)
- Sebastian Kiefer (Germany)
- Steffen Götz (Germany)

CPR Competition Finals

12:30 - 14:00
Lunch

13:00 - 14:00
Poster Tours 11 - 20

12:30 - 14:00
Research Net meeting (Room K7)

Special Circumstances
Chaired by Ian Maconachie & Ahmed Samir

Resuscitating children.
Richard Aickin (New Zealand)

Resuscitation at sea - Training fishermen.
Roberto Barcala-Furelos (Spain)

Cardiac arrest in the air.
Tony Handley (United Kingdom)

Evidence Evaluation Masterclass
Chaired by Jerry Nolan & Laurie Morrison

Laurie Morrison (Canada)
Ian Maconachie (United Kingdom)
Jerry Nolan (United Kingdom)
New Technology For Saving Lives

Chaired by Hildigunnur Svaravsdottir & Mahmoud Tageldin  Room K1  14:00 - 15:30

Virtual reality.
Federico Semeraro (Italy)

Apps
Andy Lockey (United Kingdom)

Identifying deterioration.
Michael Müller (Germany)

Resuscitation Academy Alumni

Chaired by Maaret Castren  Room K9  14:00 - 15:30

Free Paper Session 14

Chaired by Kevin Nation  Room K6  14:00 - 15:30

AS92:

AS93:

AS94:

AS95:

AS96:

AS97:

AS98:
Workshop 9: Teaching NTS

**Instructors**

Marco Kuiter (The Netherlands)
Ruben Verlangen (The Netherlands)
Anne Lippert (Denmark)

Halle 3  14:00 - 15:30

Workshop I: Crisis Resource Management in HEMS missions

**Instructors**

Frank Lerch (Germany)
Daniel Schmitz (Germany)
Matthias Roth (Germany)
Stephanie Schmidt (Germany)
Sebastian Kiefer (Germany)
Steffen Götz (Germany)

Helicopter   14:00 - 15:30

Closing Ceremony

**Chaired by Gavin Perkins, Jerry Nolan & Koen Monsieurs**

Negovsky memorial lecture.
Clifton Callaway (USA)

Halle 4   15:30 - 16:30

Best of the Best & Young Investigator awards
Winner of the CPR competition
New Honorary Members & Fellows
Outlook for Resuscitation 2018
Closing words