11th Experts Live CTO
The annual Euro CTO meeting

Final Program

September
13th – 14th, 2019
Berlin, Germany

Course Directors
Gerald S. Werner,
Darmstadt, Germany
Ulf Landmesser,
Berlin, Germany
Alexander Bufe,
Krefeld, Germany
Kambis Mashayekhi,
Bad Krozingen, Germany

Co-Course Director / Live Case Coordinator
Alexander Lauten,
Berlin, Germany

ECC-President
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The annual Euro CTO meeting

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Dear Colleagues,
Dear Friends,

Interventional therapy of chronic total occlusions has developed into a subspeciality of percutaneous coronary intervention with a procedural outcome comparable to non-CTO lesions if performed by trained and experienced operators.

The goal of the annual meeting of the European CTO club since its inaugural meeting 10 years ago has been to provide a forum of education and interactive discussion of the new developments in the treatment of CTO lesions. This includes both the presentation and discussion of new devices and the critical review of new technical approaches and strategies.

For five years we included live case transmissions to illustrate these new techniques and enhance the discussion in an interactive way with world renowned surgeons. The case selection aims at an incremental presentation of cases from seemingly low to higher complexity, thus providing contents for the already experienced, but also for those aspiring to become experts in this field of PCI.

Aside from the practical demonstration of techniques this year will focus on discussing:
- the increasing number of studies performed in the field of CTOs, and we shall provide an up-to-date overview of current knowledge.
- We also shall provide a new interactive forum to present cases by the participants in a challenging case contest hosted by the Board of the Euro CTO Club.

With Berlin in the center of Europe, we offer you both an attractive location and a geographically ideal site to meet and discuss exciting topics.

We look forward to meeting all of you in Berlin.

Gerald Werner, Ulf Landmesser, Alexander Bufe, Kambis Mashayekhi
Course Directors

Alexander Lauten
Co-Course Director

Gerald S. Werner
Congress Coordinator

George Sianos
Euro CTO Club President
# SCIENTIFIC PROGRAM

**Friday, September 13th, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>07:00</td>
<td>Registration</td>
</tr>
<tr>
<td>08:00</td>
<td><strong>Session 1</strong></td>
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<tr>
<td>08:00</td>
<td><strong>CTO PCI Case selection and antegrade approach</strong></td>
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<tr>
<td></td>
<td><em>Chairmen: Gerald Werner, Germany; Masahisa Yamane, Japan; Prathap Kumar, India</em></td>
</tr>
<tr>
<td>08:00</td>
<td>Ischemia and viability – How to select the right patient</td>
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<tr>
<td></td>
<td>Nicolas Boudou, Toulouse, France</td>
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<tr>
<td>08:10</td>
<td>Plan the approach based on the angiogram</td>
</tr>
<tr>
<td></td>
<td>Markus Meyer-Geßner, Düsseldorf, Germany</td>
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<tr>
<td>08:20</td>
<td>Radiation management in CTO PCI</td>
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<tr>
<td></td>
<td>Carlo Maccia, Paris, France</td>
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<tr>
<td>08:30</td>
<td>The essentials of guide wires for CTOs</td>
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<td>Masahisa Yamane, Sayama City, Japan</td>
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<tr>
<td>08:50</td>
<td>Antegrade – Step-by-step approach</td>
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<td></td>
<td>Alexander Bufe, Krefeld, Germany</td>
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<tr>
<td>09:00</td>
<td>Parallel wire using dual-lumen catheters</td>
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<td>Gerald S. Werner, Darmstadt, Germany</td>
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<tr>
<td>09:05</td>
<td>Where is the role for Antegrade dissection reentry?</td>
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<td></td>
<td>Elliot Smith, London, Great Britain</td>
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<tr>
<td>Time</td>
<td>Session</td>
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<tr>
<td>09:15</td>
<td>Live Case 1, presented by Boston Scientific</td>
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<tr>
<td></td>
<td>Discussants: Sergey Furkalo, Ukraine; Gabriele Luigi Gasparini, Italy;</td>
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<tr>
<td></td>
<td>Imre Ungi, Hungary; Harald Lapp, Germany; Jaroslav Wójcik, Poland</td>
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<tr>
<td>10:45</td>
<td>Lunch break, e-poster and exhibition</td>
</tr>
<tr>
<td>11:15</td>
<td>Welcome by the Organisers</td>
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<tr>
<td></td>
<td>Ulf Landmesser, Berlin, Germany; Gerald S. Werner, Darmstadt, Germany;</td>
</tr>
<tr>
<td></td>
<td>George Sianos, Thessaloniki, Greece</td>
</tr>
<tr>
<td>11:25</td>
<td>CTO PCI – How it all started and where it will go</td>
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<tr>
<td></td>
<td>Osamu Katoh, Toyohashi, Japan</td>
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<tr>
<td>11:40</td>
<td>CTO PCI – How it all started in Europe</td>
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<tr>
<td></td>
<td>Nicolaus Reifart, Wuppertal, Germany</td>
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<tr>
<td>11:50</td>
<td>CTO PCI today – A summary of recent publications</td>
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<tr>
<td></td>
<td>Carlo Di Mario, London, Great Britain</td>
</tr>
<tr>
<td>12:10</td>
<td>What are the questions to be answered by future studies in CTOs?</td>
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<tr>
<td></td>
<td>Ulf Landmesser, Berlin, Germany</td>
</tr>
<tr>
<td>12:20</td>
<td>Live Case 3, presented by ASAHI</td>
</tr>
<tr>
<td></td>
<td>Discussants: Hans Bonnier, Belgium; Nenad Bozinovic, Serbia; Evald Høj Christiansen, Denmark; Thomas Gehrig, Germany; Eugenio La Scala, France</td>
</tr>
<tr>
<td>13:15</td>
<td>Lunch break, e-poster and exhibition</td>
</tr>
<tr>
<td>14:00</td>
<td>Session 3</td>
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<tr>
<td></td>
<td>CTO PCI: Retrograde approach</td>
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<td></td>
<td>Chairmen: Osamu Katoh, Japan; Nicolaus Reifart, Germany; Hsien-Li Kao, Taiwan</td>
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<tr>
<td>14:50</td>
<td>Microcatheters for antegrade and retrograde approach</td>
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<tr>
<td></td>
<td>George Sianos, Thessaloniki, Greece</td>
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<tr>
<td>15:05</td>
<td>Retrograde approach step-by-step</td>
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<td></td>
<td>Kambis Mashayekhi, Bad Krozingen, Germany</td>
</tr>
<tr>
<td>15:20</td>
<td>Debate: Is there a difference between RDR and reverse CART? – No</td>
</tr>
<tr>
<td></td>
<td>Dimitri Karmpaliotis, New York, USA</td>
</tr>
<tr>
<td>15:30</td>
<td>Debate: Is there a difference between RDR and reverse CART? – Yes</td>
</tr>
<tr>
<td></td>
<td>Hsien-Li Kao, Taipei, Taiwan</td>
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<tr>
<td>15:40</td>
<td>Conclusion</td>
</tr>
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<td></td>
<td>All discussants</td>
</tr>
<tr>
<td>Time</td>
<td>Session X</td>
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<td>---------------------------------------------------------------------------</td>
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<tr>
<td>18:00</td>
<td>&quot;Case competition&quot;</td>
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<tr>
<td>19:00</td>
<td>Chairmen: Alexander Bufe, Krefeld, Germany; Kambis Mashayekhi, Bad Krozingen, Germany</td>
</tr>
<tr>
<td>20:00</td>
<td>Congress Dinner (tickets have to be booked in advance)</td>
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<td></td>
<td>Meeting Point: Lobby Hilton Hotel 19:30</td>
</tr>
</tbody>
</table>

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SCIENTIFIC PROGRAM

Saturday, September 14th, 2019

07:30 – 08:30
Breakfast Symposium Teleflex

Welcome and introduction
Chris Buller, Canada

Setting up for Success: Advanced guide extensions to simplify your cases
Gerald S. Werner, Darmstadt, Germany

Integrating Microcatheters into Complex Interventions: How to use torqueable Microcatheters to your advantage
Kambis Mashayekhi, Germany

Maintaining Distal Guidewire position: Trapping basics and the optimal use of guide extensions with integrated trapping balloon
Elliot Smith, Great Britain

Q&A and Closing remarks
Gerald S. Werner, Darmstadt, Germany

08:45 – 11:15
Session 5
How to manage specific problems in CTO PCI
Chairmen: Alexander Bufe, Germany; Masahiko Ochiai, Japan; Prathap Kumar, India

08:45 – 10:15
LIVE CASE 6 and 7
Discussants: Rostyslav Prog, Germany; Sinisa Stojkovic, Serbia; Carlo Tumscitz, Italy; Omer Goktekin, Turkey; Joachim Weber-Albers, Germany

Live Case 6, presented by ASAHI
Hsien-Li Kao, Taipei, Taiwan; Markus Meyer-Geßner, Düsseldorf, Germany

Live Case 7, presented by IMDS
George Sianos, Thessaloniki, Greece; Tim Schäufele, Bern, Switzerland
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Discussants</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15</td>
<td>CTO and bifurcation</td>
<td>Thierry Lefèvre, Massy, France</td>
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<tr>
<td>10:25</td>
<td>Optimize guide catheter support</td>
<td>Fabrice Leroy, Lille, France</td>
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<tr>
<td>10:35</td>
<td>What to do if you cannot cross the proximal cap?</td>
<td>Prathap Kumar, Kollam, India</td>
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<tr>
<td>10:45</td>
<td>Or if antegrade balloon cannot pass?</td>
<td>Imre Ungi, Szeged, Hungary</td>
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<tr>
<td>10:55</td>
<td>Or if microcatheter cannot pass collateral?</td>
<td>Gabriele Luigi Gasparini, Rozzano, Italy</td>
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<tr>
<td>11:05</td>
<td>Or if reverse CART does not work?</td>
<td>Alessio La Manna, Catania, Italy</td>
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<tr>
<td>11:15</td>
<td>Coffee break, e-poster and exhibition</td>
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<tr>
<td>11:45</td>
<td>Session 6</td>
<td>Critical issues in CTO PCI</td>
<td>Chairman: Roberto Garbo, Italy; Alexandre Avran, France; Kenya Nasu, Japan</td>
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<tr>
<td>12:30</td>
<td>Intracoronary Imaging – When to use, how to use and how to interpret the images</td>
<td>Roberto Garbo, Turin, Italy</td>
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<tr>
<td>12:40</td>
<td>Which CTO should be treated by PCI or CABG &amp; The specific problems of PCI for post CABG patients</td>
<td>Gerald S. Werner, Darmstadt, Germany</td>
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<td>12:50</td>
<td>Lunch break, e-poster and exhibition</td>
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<td>13:45</td>
<td>LIVE CASE 9</td>
<td>Discussants: Alessio La Manna, Italy; Luca Grancini, Italy; Jaroslaw Wójcik, Poland; Pietro Mazzarotto, Italy; Zisis Dimitriadis, Mainz, Germany</td>
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<tr>
<td>13:45</td>
<td>Live Case 9, presented by ASAHI</td>
<td>Masahisa Yamane, Sayama City, Japan; Jürgen Arenz, Recklinghausen, Germany</td>
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<tr>
<td>14:30 – 16:30</td>
<td>Session 7</td>
<td>Clinical issues in CTO PCI</td>
<td>Chairman: Carlo Di Mario, Great Britain; Georgios Sianos, Greece</td>
<td></td>
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<tr>
<td>14:30 – 15:15</td>
<td>LIVE CASE 10</td>
<td>Discussants: Guy Heyndrickx, Belgium; Sudhir Rathore, Great Britain; Markus Meyer-Geßner, Germany; Jaroslaw Wójcik, Poland</td>
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<tr>
<td>14:30 – 15:15</td>
<td>Live Case 10, presented by IMDS</td>
<td>Roberto Garbo, Turin, Italy; Jörg Dalibor, Dresden, Germany</td>
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<td>15:15</td>
<td>Coffee break, e-poster and exhibition</td>
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<tr>
<td>15:45</td>
<td>CTO PCI and length of dual antiplatelet regimen</td>
<td>Maciej Lesiak, Poznan, Poland</td>
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<tr>
<td>15:55</td>
<td>CTO and atrial fibrillation – Do we apply the ESC recommendations?</td>
<td>Sudhir Rathore, Canberley, Great Britain</td>
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<tr>
<td>16:05</td>
<td>Novel antegrade wire dissection techniques</td>
<td>Alfredo Galassi, Palermo, Italy</td>
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<tr>
<td>16:15</td>
<td>CTO PCI failure – When to try again?</td>
<td>Bernward Lauer, Jena, Germany</td>
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</tbody>
</table>
16:25 Summary of Live Cases and Critical Discussion
Panel with Live Operators

16:40 – 16:45 Closing remarks
George Sianos, Thessaloniki, Greece

17:00 ECC General Assembly

FACULTY

THE EURO CTO CLUB CORDially THANKS THE INVITED SPEAKERS FOR SUPPORTING THE WORKSHOP WITH THEIR KNOWLEDGE AND EXPERTISE:

GUEST FACULTy
Karmpaliotis, Dimitri, USA
Kao, Hsien-Li, Taiwan
Katoh, Osamu, Japan

Ochiai, Masahiko, Japan
Yamane, Masahisa, Japan

LIVE OPERATORS
Avran, Alexandre, France
Boudou, Nicolas, France
Galassi, Alfredo, Italy
Kao, Hsien-Li, Taiwan
Kumar, Prathap, India

Mashayekhi, Kambis, Germany
Ochiai, Masahiko, Japan
Sianos, George, Greece
Werner, Gerald S., Germany
Yamane, Masahisa, Japan

LIVE CASE FACILITATORS
Arenz, Jürgen, Germany
Avran, Alexandre, France
Bufe, Alexander, Germany
Dalibor, Jörg, Germany
Lapp, Harald, Germany

Lauer, Bernward, Germany
Meyer-Geßner, Markus, Germany
Rosenberg, Mark, Germany
Schäufele, Tim, Switzerland

SPEAKERS
Boudou, Nicolas, France
Büttner, Heinz Joachim, Germany
Bufe, Alexander, Germany
Buller, Chris, Canada
Di Mario, Carlo, Great Britain
Gagnor, Andrea, Italy
Galassi, Alfredo, Italy
Garbo, Roberto, Italy
Gasparini, Gabriele Luigi, Italy
Karmpaliotis, Dimitri, USA
Kao, Hsien-Li, Taiwan

Katoh, Osamu, Japan
Konstantinidis, Nikolaos, Greece
Kumar, Prathap, India
La Manna, Alessio, Italy
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Leroy, Fabrice, France
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Maccia, Carlo, France
Mashayekhi, Kambis, Germany

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- Di Mario, Carlo, Great Britain
- Galassi, Alfredo, Italy
- Garbo, Roberto, Italy
- Katoh, Osamu, Japan
- Kao, Hsiien-Li, Taiwan
- Karmpaliotis, Dimitri, USA

- Smith, Elliot, Great Britain
- Werner, Gerald S., Germany
- Yamane, Masahisa, Japan

**Discussants**

- Bonnier, Hans, Belgium
- Bozinovic, Nenad, Serbia
- Büttner, Heinz Joachim, Germany
- Christiansen, Evald Høj, Denmark
- Carlino, Mauro, Italy
- Furkalo, Sergey, Ukraine
- Gagnor, Andrea, Italy
- Gasparini, Gabriele Luigi, Italy
- Gehrig, Thomas, Germany
- Goktekin, Omer, Turkey
- Grancini, Luca, Italy
- Kalnins, Artis, Latvia
- La Manna, Alessio, Italy
- Lapp, Harald, Germany
- La Scala, Eugenio, France
- Lauer, Berward, Germany

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Schmitz, Thomas
Sood, Nitin
Weber-Albers, Joachim
Werner, Gerald S.

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Lismanis, Algar

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tour dates 2019 (excerpt):

Our partner network:
GENERAL INFORMATION

11th Experts Live CTO
September 13th – 14th, 2019
Berlin, Germany

Venue
Hilton Hotel
Mohrenstraße 30 | 10117 Berlin

Language
The official language of the congress is English. No simultaneous translation is available.

Certificate of Attendance
The Certificate of Attendance will be available on-site at the registration desk. The meeting will be accredited by the European Board of Accreditation in Cardiology (EBAC).

Registration fee
on site 850,00 € incl. VAT / per person
Reduced rate for fellows: 400,00 € incl. VAT / per person (physicians in education/training)*

Registration fee includes
- Admission to the Scientific Sessions
- Catering during the breaks
- Certificate of attendance

Congress Dinner
60,00 € incl. VAT / per person
Friday, September 13th, 2019

Online registration: www.eurocto2019.com

NOTES
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