



ESTI

European
Society of
Thoracic
Imaging

ESTI 2019

JOINT MEETING OF ESTI AND
THE FLEISCHNER SOCIETY

MAY 09-11, 2019
PARIS, FRANCE



FINAL PROGRAMME



WELCOME WORDS

Dear Colleagues and Friends,

On behalf of the European Society of Thoracic Imaging and the Fleischner Society, it is our great pleasure to welcome you to Paris, France, from May 09-11, 2019, to the joint meeting of our two societies.

The conference will take place at Maison de la Chimie (the House of Chemistry), a beautiful building from the 18th century dedicated to chemistry but also an international congress center in the very heart of Paris. It is located within walking distance of the National Assembly and Les Invalides, and within easy reach of Charles de Gaulle Airport.

The scientific programme will focus on all aspects of Thoracic Imaging of Respiratory Disease, with lectures on state-of-the-art CT, MRI, interventional radiology together with multidisciplinary scientific presentations on the most recent advances in our specialty. Among evolving topics, lung fibrosis, lung cancer screening, response evaluation criteria and the role of artificial intelligence in thoracic imaging will be covered in detail. Workshops on chest X-ray reading, lung nodule management and high resolution CT will take place the day before the main meeting.

Paris is one of the world's most visited cities, with famous museums, architectural masterpieces, beautiful boulevards and parks, not to mention wonderful cafes and restaurants. Since the 17th century, it has been one of Europe's major centers of commerce, fashion, science and art. In Paris, you will be able to visit the Louvre and its huge collections, to enjoy French Impressionist art at the Musée d'Orsay or modern and contemporary art at the Pompidou Centre. The Eiffel tower and Notre Dame Cathedral can be reached within just 20 minutes from the conference venue.

We hope that you will appreciate the more informal features of the meeting, where there will be many opportunities for discussion outside the lecture sessions, to meet colleagues from many different backgrounds and horizons, to exchange ideas, compare notes and learn from each other. Above all, we hope that you find this joint meeting to be an enjoyable and stimulating occasion and that you can also find time to have fun in this wonderful location!

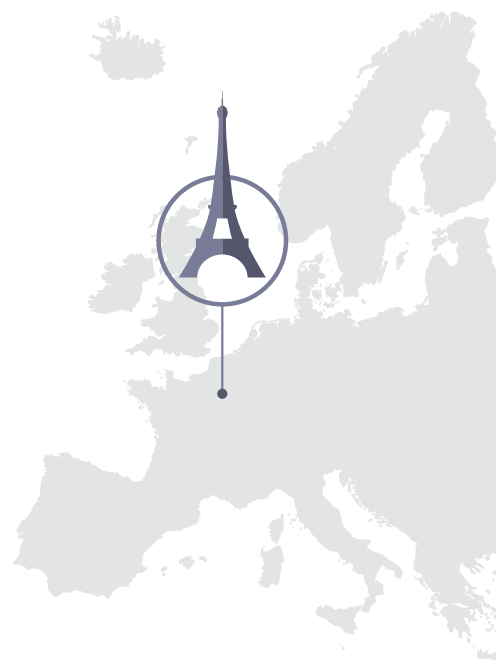
Welcome to Paris!



Marie-Pierre Revel
ESTI 2019 President



Charles Powell
Fleischner 2019 President





ESTI-FLEISCHNER 2019 FACULTY

Galit Aviram, Tel-Aviv/IL	Nigel Howarth, Chêne-Bougeries/CH	Eliot Siegel, Baltimore/US
Alexander Bankier, Boston/US	Colin Jacobs, Nijmegen/NL	Mario Silva, Parma/IT
Catherine Beigelman-Aubry, Lausanne/CH	Hans-Ulrich Kauczor, Heidelberg/DE	Annemiek Snoeckx, Edegem/BE
Jürgen Biederer, Sehheim-Jugenheim/DE	Antoine Khalil, Paris/FR	Jae Woo Song, Seoul/KR
Phillip Boiselle, Boston/US	Jin-Hwan Kim, Daejeon/KR	Jean Baptiste Stern, Paris/FR
Lorenzo Bonomo, Rome/IT	Yun-Hyeon Kim, Gwangju/KR	Nicola Sverzelatti, Parma/IT
Jens Bremerich, Basle/CH	Jeffrey Klein, Williston/US	Denis Tack, Braine-L'Alleud/BE
Pierre-Yves Brillet, Bobigny/FR	Anna Rita Larici, Rome/IT	Maria Vakalopoulou, Paris/FR
John Brodersen, Copenhagen/DK	Mathieu Lederlin, Rennes/FR	Edwin van Beek, Edinburgh/UK
Anne-Laure Brun, Paris/FR	Ann Leung, Stanford/US	Bram van Ginneken, Nijmegen/NL
Caroline Caramella, Villejuif/FR	Diana Litmanovich, Boston/US	Johnny Verschakelen, Leuven/BE
Eva Castañer González, Sabadell/ES	David Lynch, Denver/US	Rozemarijn Vliegenthart, Groningen/NL
Rok Cesar, Golnik/SI	Heber MacMahon, Chicago/US	Simon Walsh, London/UK
Guillaume Chassagnon, Paris/FR	John R. Mayo, Vancouver/US	Athol Wells, London/UK
Emmanuel Coche, Brussels/BE	Theresa McCloud, Boston/US	Charles White, Baltimore/US
Marco Das, Duisburg/DE	Gustavo Meirelles, Sao Paulo/BR	Mark O. Wielpütz, Heidelberg/DE
Constance de Margerie-Mellon, Paris/FR	Francesco Molinari, Tourcoing/FR	
Carole Dennie, Ottawa/CA	Sadayuki Murayama, Nishihara-cho/JP	
Sujal Desai, London/UK	Luigi Natale, Rome/IT	
Anand Devaraj, London/UK	Yoshiharu Ohno, Toyoake/JP	
Gilbert Ferretti, Grenoble/FR	Anastasia Oikonomou, Toronto/CA	
Laure Fournier, Paris/FR	Simon Padley, London/UK	
Tomas Franquet, Barcelona/ES	Nikos Paragios, Paris/FR	
Thomas Frauenfelder, Zurich/CH	Anagha P. Parkar, Bergen/NO	
Jeffrey R. Galvin, Silver Spring/US	Francois Pontana, Lille/FR	
Jean Yves Gaubert, Marseille/FR	Charles Powell, New York/US	
Warren B. Geffer, Wynnewood/US	Mathias Prokop, Nijmegen/NL	
Benoit Ghaye, Brussels/BE	Helmut Prosch, Vienna/AT	
Ritu Gill, Lexington/US	Suhail Raoof, New York/US	
Fergus Gleeson, Oxford/UK	Martine Remy-Jardin, Lille/FR	
François Goldwasser, Paris/FR	Marie-Pierre Revel, Paris/FR	
Jin Mo Goo, Seoul/KR	Carole Ridge, London/UK	
Lawrence Goodman, Milwaukee/US	Geoffrey Rubin, Stanford/US	
Dominique Gossot, Paris/FR	Jay Ryu, Rochester/US	
Philippe Grenier, Paris/FR	Shuji Sakai, Tokyo/JP	
Linda Broyde Haramati, Bronx/US	Cornelia Schaefer-Prokop, Amersfoort/NL	
Christoph Hoeschen, Magdeburg/DE	Mark Schiebler, Madison/US	
Eric A. Hoffman, Iowa City/US	Nicholas J. Screaton, Cambridge/UK	
James C. Hogg, Vancouver/CA	Joon Beom Seo, Seoul/KR	



PROGRAMME OVERVIEW

WEDNESDAY, MAY 08

ROOM 2 - PETIT AMPHITHÉÂTRE

13:00-14:30 **High resolution CT**

14:30-15:00 Coffee Break

15:00-16:00 **Lung nodule management**

16:00-16:30 Coffee Break

16:30-17:45 **Chest radiography**

THURSDAY, MAY 09

ROOM 1 - AMPHITHÉÂTRE LAVOISIER

08:30-09:40 **Scientific Session 1:
Lung cancer, nodules and screening**

09:40-10:00 Coffee Break

10:00-10:30 **Opening Session**

10:30-12:10 **Oncology: Lung cancer in 2019**

12:10-12:15 Break

12:15-13:15 **Industry sponsored lunch symposium**

13:15-13:30 Break

13:30-15:30 **CT lung cancer screening**

15:30-16:00 Coffee Break

16:00-17:40 **Radiation dose**

ROOM 2 - PETIT AMPHITHÉÂTRE

08:30-09:40 **Scientific Session 2:
AI, radiomics, Prediction Imaging**

10:30-12:10 **Functional imaging**

13:30-15:30 **COPD and other inhalation diseases**

16:00-17:30 **KSTR and FSTI joint session**

FRIDAY, MAY 10

ROOM 1 - AMPHITHÉÂTRE LAVOISIER	ROOM 2 - PETIT AMPHITHÉÂTRE
08:30-10:00 Scientific Session 3: Airways COPD	08:30-10:00 Scientific Session 4: Pulmonary and nodule perfusion, dose reduction and intervention[m1]
10:00-10:30 Industry sponsored company slot	
10:30-11:00 Coffee Break	
11:00-12:30 Guidelines and practice	11:00-12:30 Vascular diseases
12:30-12:45 Break	
12:45-13:45 Industry sponsored lunch symposium	
13:45-14:00 Break	
14:00-16:00 Radiomics and deep learning	14:00-16:00 Acute and chronic pulmonary embolism
16:00-16:30 Coffee Break	
16:30-18:10 Idiopathic pulmonary fibrosis (IPF): An update	16:30-18:10 ESTI meets STR: Infection

SATURDAY, MAY 11

ROOM 1 - AMPHITHÉÂTRE LAVOISIER	ROOM 2 - PETIT AMPHITHÉÂTRE
08:30-09:45 ESTI meets ESCR: Assessing the heart on routine, ungated chest CT	08:30-09:45 Scientific Session 5: ILD
09:45-10:00 Coffee Break	
10:00-11:30 Film Panel	
11:30-11:45 Break	
11:45-12:45 Industry sponsored lunch symposium	
12:45-13:00 Break	
13:00-15:00 Thoracic intervention	13:30-15:00 ESTI meets KSTR - Oral and poster presentations
15:00-15:15 Break	
15:15-15:50 Honorary Membership & Awardings	
15:50-16:00 Break	
16:00-16:30 General Assembly	



WEDNESDAY, MAY 08

13:00-14:30	High resolution CT	Workshop Room - Petit Amphithéâtre
	<i>Moderator: D. Lynch, Denver/US</i>	
13:00	Secondary pulmonary lobule anatomy and nodular pattern <i>H. Prosch, Vienna/AT</i>	
13:18	Linear and reticular pattern <i>F. Molinari, Tourcoing/FR</i>	
13:36	GGO opacities and consolidation <i>M. Silva, Parma/IT</i>	
13:54	Approach to cystic lung diseases <i>A. Oikonomou, Toronto/CA</i>	
14:12	How to diagnose fibrotic lung diseases <i>D. Lynch, Denver/US</i>	
14:30-15:00	Coffee Break	
15:00-16:00	Lung nodule management	Workshop Room - Petit Amphithéâtre
	<i>Moderator: A. Devaraj, London/UK</i>	
15:00	Radiological assessment <i>T. Frauenfelder, Zurich/CH</i>	
15:20	Characterization <i>A.R. Larici, Rome/IT</i>	
15:40	Management guidelines <i>A. Devaraj, London/UK</i>	
16:00-16:30	Coffee Break	
16:30-17:45	Chest radiography	Workshop Room - Petit Amphithéâtre
	<i>Moderator: L. Goodman, Milwaukee/US</i>	
16:30	A chest radiography reading guide <i>M-P. Revel, Paris/FR</i>	
16:45	Alveolar, interstitial and nodular syndromes <i>M. Schiebler, Wisconsin/US</i>	
17:00	Lobar atelectasis <i>A. Leung, Stanford/US</i>	
17:15	Pleural syndrome <i>C. Schaefer-Prokop, Amersfoort/NL</i>	
17:30	Mediastinal syndromes <i>L. Goodman, Milwaukee/US</i>	



THURSDAY, MAY 09

08:30-09:40 Scientific Session 1: Lung cancer, nodules and screening Room 1

Moderators: P. Grenier, Paris/FR; M. Prokop, Nijmegen/NL

- 08:30 Low-dose computed tomography (LDCT) screening reduces lung cancer mortality beyond 5 years
M. Silva, Parma/IT
- 08:40 Lung cancer risk after baseline round of screening: Only 20% of NLST eligibles require annual round
M. Silva, Parma/IT
- 08:50 Lung Cancer Screening with Ultralow Dose Chest CT: Potential Pitfalls of Pulmonary Findings in Different Readers with Various Experience Levels
K. Martini, Zurich/CH
- 09:00 Regional polish lung cancer screening program - CT results and lung cancer detection rate
M. Jelitto-Gorska, Gdansk/PL
- 09:10 Lung cancer screening in an oncologic patient population. Results of our 7 year experience
E. O'Dwyer, New York/US
- 09:20 Characterization of mediastinal anterior masses with magnetic resonance imaging using diffusion-weighted imaging and prediction of World Health Organization classification
M. Gavrel, Villejuif/FR
- 09:30 Discussion

08:30-09:40 Scientific Session 2: AI, radiomics, Prediction Imaging Room 2

Moderators: S. Desai, London/UK; E. Siegel, Baltimore/US

- 08:30 Automated CT quantification of interstitial lung disease: Comparison between convolutional neural network and ground truth
P.-Y. Brillet, Bobigny/FR
- 08:40 Deep Multi-Atlas Driven Elastic Nets For segmentation of scleroderma-related ILD on chest CT
G. Chassagnon, Paris/FR
- 08:50 Deep iodine: Artificial intelligence-based normalized subtraction CT iodine maps for improved detection of pulmonary embolism
D. Grob, Nijmegen/NL
- 09:00 Performance of an AI-powered lung nodule detection and segmentation algorithm in a patient cohort with histologically confirmed lung tumors
A.W. Sauter, Basel/CH
- 09:10 CT 3D texture analysis: Differentiation of thymoma from thymic cyst by enhanced CT imaging
S. Lim, Seoul/KR
- 09:20 Predicting overall survival of lung cancer patients using Radiomics CT features
M.K. Santos, Ribeirao Preto/BR
- 09:30 Which Imaging Characteristics Predict Recurrence In Stage 3A Lung Cancer After Chemotherapy And Radiation Therapy Treatment?
C. Simmers, New York/US

09:40-10:00 Coffee Break

10:00-10:30 Opening Session Room 1

Moderators: C. Powell, New York/US; M-P. Revel, Paris/FR

- 10:00 Welcome from the 2019 congress presidents
C. Powell, New York/US; M-P. Revel, Paris/FR
- 10:05 Thoracic applications of AI: Threat or opportunity?
E. Siegel, Baltimore/US



10:30-12:10	Oncology: Lung cancer in 2019	Room 1
	<i>Moderators: L. Bonomo, Rome/IT; S. Sakai, Tokyo/JP</i>	
10:30	Current trends in worldwide lung cancer epidemiology <i>C. Powell, New York/US</i>	
10:52	The new TNM system: Changes and limitations <i>A.R. Larici, Rome/IT</i>	
11:14	Immunotherapy: How can imaging help to evaluate the response? <i>C. Caramella, Villejuif/FR</i>	
11:36	Do not forget the patient: Sarcopenia and other comorbidities <i>F. Goldwasser, Paris/FR</i>	
11:58	Discussion	
10:30-12:10	Functional imaging	Room 2
	<i>Moderators: M. Schiebler, Madison/US; E. van Beek, Edinburgh/UK</i>	
10:30	Evaluating the pulmonary perfusion <i>M. Remy-Jardin, Lille/FR</i>	
10:52	Functional imaging in COPD <i>J.B. Seo, Seoul/KR</i>	
11:14	Evaluating the CF patient <i>M.O. Wielpütz, Heidelberg/DE</i>	
11:36	New trends in functional imaging <i>E. Hoffman, Iowa/US</i>	
11:58	Discussion	
12:10-12:15	Break	
12:15-13:15	Industry sponsored lunch symposium	Room 1
13:15-13:30	Break	
13:30-15:30	CT lung cancer screening	Room 1
	<i>Moderators: H-U. Kauczor, Heidelberg/DE; H. Prosch, Vienna/AT</i>	
13:30	Summary of current evidence, results from the Nelson study <i>M. Prokop, Nijmegen/NL</i>	
13:52	Best technical imaging standards in CT lung cancer screening <i>A. Snoeckx, Edegem/BE</i>	
14:14	Risk models and biomarkers: Do they improve screening? <i>M. Silva, Parma/IT</i>	
14:36	Psychological impact of screening <i>J. Brodersen, Copenhagen/DK</i>	
14:58	US experience after implementation <i>P. Boiselle, Boston/US</i>	
15:20	Discussion	
13:30-15:30	COPD and other inhalation diseases	Room 2
	<i>Moderators: S. Murayama, Nishihara/JP; J.B. Seo, Seoul/KR</i>	
13:30	Current trends in COPD epidemiology and smoking epidemic <i>S. Raoof, New York/US</i>	
13:52	From pathology to imaging: Lessons from micro-CT <i>J. Hogg, Vancouver/CA</i>	
14:14	Smoking-related interstitial lung disease <i>J. Galvin, Silver Spring/US</i>	
14:36	Hypersensitivity pneumonitis: An update <i>A. Devaraj, London/UK</i>	
14:58	Aspiration: Imaging manifestations <i>J. Ryu, Rochester/US</i>	
15:20	Discussion	
15:30-16:00	Coffee Break	

16:00-17:40	Radiation dose	Room 1
	<i>Moderators: Y. Ohno, Toyooka/JP; C. Schaefer-Prokop, Amersfoort/NL</i>	
16:00	Dose optimization for thoracic CT: The MEDIRAD project <i>C. Hoeschen, Magdeburg/DE</i>	
16:22	How do I evaluate CT radiation dose <i>D. Tack, Braine-L'Alleud/BE</i>	
16:44	Ultra-low dose CT protocols: Clinical indications <i>G. Ferretti, Grenoble/FR</i>	
17:06	Imaging the lung with no dose: Current role of MRI <i>J. Biederer, Heidelberg/DE</i>	
17:28	Discussion	
16:00-17:30	KSTR and FSTI joint session	Room 2
	<i>Moderators: M. Lederlin, Rennes/FR; J.W. Song, Seoul/KR</i>	
16:00	Hemoptysis: KSTR guidelines <i>J-H. Kim, Daejeon/KR</i>	
16:15	Hemoptysis embolization: 10 year experience <i>A. Khalil, Paris/FR</i>	
16:30	Endovascular management of severe hemoptysis in patients with lung transplantation <i>W. Mohammad, Paris/FR</i>	
16:36	Hemoptysis requiring bronchial artery embolization in patients with nontuberculous mycobacteria lung disease <i>S.S. Shim, Seoul/KR</i>	
16:42	Transthoracic rebiopsy for mutation analysis in lung adenocarcinoma: Outcomes and risk factors for non-diagnostic specimen in 199 patients <i>B. Nam, Seoul/KR</i>	
16:48	Diagnostic outcome and safety of CT-guided core needle biopsy for mediastinal mass: A Systematic review and meta-analysis <i>H.N. Lee, Seoul/KR</i>	
16:54	Diagnostic accuracy of CT-guided core biopsy of thin-walled cavitary pulmonary lesions <i>K.E. Shin, Bucheon-si, Gyeonggi-do/KR</i>	
17:00	Efficacy of advanced knowledge-based iterative reconstruction in coronary CT angiography for plaque quantification: A comparison with intravascular ultrasound <i>J.Y. Yoo, Cheongju-si/KR</i>	
17:06	Preoperative CT-determined emphysema and postoperative pulmonary complication for non-small cell lung cancer <i>H.Y. Lee, Incheon/KR</i>	
17:12	Imaging of lung transplantation and common postoperative complications <i>Y. Choi, Yangsan/KR</i>	
17:18	Clinicoradiologic significance of Late-Onset Noninfectious Pulmonary Complications (LONIPCs) after allogeneic hematopoietic stem cell transplantation (HSCT) <i>J.S. Park, Bucheon/KR</i>	
17:24	Chest Magnetic Resonance Imaging: Current Applications and Future Perspectives <i>Y.J. Jeong, Busan/KR</i>	



FRIDAY, MAY 10

08:30-10:00 Scientific Session 3: Airways COPD Room 1

Moderators: A. Bankier, Boston/US; R. Cesar, Gdansk/PL

- 08:30 Prone vs supine posture differences in quantitative CT imaging-derived regional lung ventilation map and motionography in healthy subjects
C. Lee, Seoul/KR
- 08:40 Numerical Modeling of Hyperpolarized Xenon-129 Gas Transfer in Health and COPD Subjects
F. Gleeson, Oxford/UK
- 08:50 Quantitative computed tomography in the assessment of asthma severity
M. Patyk, Wroclaw/PL
- 09:00 Comparison of Different Reconstruction Kernel in Quantitative Evaluation of Emphysema on CT
M. Khalil, Gothenburg/SE
- 09:10 Emphysema in Lung Cancer Screening Program participants - Visual and automatic evaluation
A. Durawa, Gdansk/PL
- 09:20 Fully automated 3D quantification of "minus" and "plus" pathology in Cystic Fibrosis using 3D-UTE MRI: A validation study
I. Benlala, Bordeaux/FR
- 09:30 CT Evaluation of hyperattenuating mucus to diagnose allergic bronchopulmonary aspergillosis in the special condition of cystic fibrosis
G. Dournes, Bordeaux/FR
- 09:40 Derivation und Validation of a Primary Ciliary Dyskinesia Computed Tomography (PCD-CT) Score in adult patients with bronchiectasis
S. Dettmer, Hanover/DE
- 09:50 Not to be Sniffed At: Role of Diaphragm Fluoroscopy in influencing patient selection for surgical intervention in patients with Diaphragmatic Paralysis
H. Ramotar, Leeds/UK

08:30-10:00 Scientific Session 4: Pulmonary and nodule perfusion, dose reduction and intervention[m1] Room 2

Moderators: M. Remy-Jardin, Lille/FR; D. Tack, Braine-L'Alleud/BE

- 08:30 Perfusion defects on dual energy CT angiogram correlate with lower survival in patients with pulmonary embolism
R. Perez Johnston, New York/US
- 08:40 Intra-patient comparison of pulmonary nodule enhancement in subtraction CT and dual-energy CT
D. Grob, Nijmegen/NL
- 08:50 CT angiography for pulmonary embolism in the emergency department: Diagnostic accuracy of 20 ml high-concentration contrast medium
G. Milanese, Parma/IT
- 09:00 Organ-based radiation dose reduction to breast in lung cancer screening with low-dose computed tomography (CT)
P. Franchi, Teramo/IT
- 09:10 Comparison of ultra-low dose CT scanning protocols for the detection of pulmonary nodules classified according to lungRads: A phantom study
G. Milanese, Parma/IT
- 09:20 Vertical off-centering in Reduced Dose Chest-CT with Automated Tube Current Modulation: Impact on effective dose and image noise
K. Martini, Zurich/CH
- 09:30 Study on Radiation Dose in accordance with the Automatic Exposure Control Chamber position on Chest PA
D. Sung, Seoul/KR
- 09:40 CT-guided microcoil pulmonary nodule localization prior to video-assisted thoracoscopic surgery (VATS): Diagnostic utility and recurrence-free survival
J.C.L. Rodrigues, Bath/UK
- 09:50 Air embolism - Severe complication of percutaneous lung needle biopsy, which could be avoided
M. Jelitto-Gorska, Gdansk/PL

10:00-10:30 Industry sponsored company slot Room 1

- 10:30-11:00 Coffee Break

11:00-12:30	Guidelines and practice	Room 1
	<i>Moderators: T. McCloud, Boston/US; H. Prosch, Vienna/AT</i>	
11:00	Fleischner Society guidelines for solid and subsolid nodules management <i>H. MacMahon, Chicago/US</i>	
11:20	STR guidelines for evaluating suspected pulmonary embolism during pregnancy <i>A. Leung, Stanford/US</i>	
11:40	Guidelines for lung cancer screening: European and US perspectives <i>A. Bankier, Boston/US</i>	
12:00	Multidisciplinary conferences: Where is and how do we quantify „added value“ <i>J. Verschakelen, Leuven/BE</i>	
12:20	Discussion	
11:00-12:30	Vascular diseases	Room 2
	<i>Moderators: C. Beigelman-Aubry, Lausanne/CH; J. Mayo, Vancouver/CA</i>	
11:00	Pulmonary hypertension: Role of CT <i>N. Screatton, Cambridge/UK</i>	
11:20	Large vessel vasculitis <i>E. Castañer González, Sabadell/ES</i>	
11:40	Small vessel vasculitis <i>A-L. Brun, Paris/FR</i>	
12:00	Acute aortic syndromes <i>D. Litmanovich, Boston/US</i>	
12:20	Discussion	
12:30-12:45	Break	
12:45-13:45	Industry sponsored lunch symposium	Room 1
13:45-14:00	Break	
14:00-16:00	Radiomics and deep learning	Room 1
	<i>Moderators: N. Paragios, Paris/FR; E. Siegel, Baltimore/US</i>	
14:00	Radiomics: How does it work? <i>L. Fournier, Paris/FR</i>	
14:22	Deep learning: How does it work? <i>M. Vakalopoulou, Saclay/FR</i>	
14:44	Radiomics: Characterization or prognosis tool in lung cancer? <i>J.M. Goo, Seoul/KR</i>	
15:06	Deep learning for classification and quantification of lung fibrosis <i>G. Chassagnon, Paris/FR</i>	
15:28	Deep learning for detection and characterization of lung nodules <i>C. Jacobs, Nijmegen/NL</i>	
15:50	Discussion	
14:00-16:00	Acute and chronic pulmonary embolism	Room 2
	<i>Moderators: C. Dennie, Ottawa/CA; M. Remy-Jardin, Lille/FR</i>	
14:00	Acute and chronic pulmonary embolism: Diagnostic imaging strategies <i>L. Haramati, Bronx/US</i>	
14:22	The role of CT for risk stratification in acute PE <i>G. Aviram, Tel-Aviv/IL</i>	
14:44	New MR sequences: Current performance and remaining limitations <i>B. Ghaye, Brussels/BE</i>	
15:06	Subsegmental PE: Definition and evidence-based management <i>C. Schaefer-Prokop, Amersfoort/NL</i>	
15:28	Evaluating PE with dual layer CT <i>E. Coche, Brussels/BE</i>	
15:50	Discussion	
16:00-16:30	Coffee Break	

16:30-18:10	Idiopathic pulmonary fibrosis (IPF): An update	Room 1
	<i>Moderators: P-Y. Brillet, Bobigny/FR; A. Devaraj, London/UK</i>	
16:30	New IPF criteria: Impact on imaging and treatment <i>D. Lynch, Denver/US</i>	
16:52	Acute exacerbation: Current definition, differentials and imaging features <i>N. Sverzellati, Parma/IT</i>	
17:14	Novel treatments: What have they changed or improved? <i>A. Wells, London/UK</i>	
17:36	Computed Tomographic Biomarkers in Idiopathic Pulmonary Fibrosis <i>S. Walsh, London/UK</i>	
17:58	Discussion	
16:30-18:10	ESTI meets STR: Infection	Room 2
	<i>Moderators: T. Frauenfelder, Zurich/CH; A. Oikonomou, Toronto/CA</i>	
16:30	TB: The role of imaging in the worldwide battle <i>R. Gill, Lexington/US</i>	
16:52	Emerging infections: What can imaging tell us? <i>T. Franquet, Barcelona/ES</i>	
17:14	The many faces of pulmonary aspergillosis: A memoir <i>W. Geffer, Wynnewood/US</i>	
17:36	HIV infection: Current trends with a special focus on Africa and on adolescents <i>S. Desai, London/UK</i>	
17:58	Discussion	



SATURDAY, MAY 11

08:30-09:45 ESTI meets ESCR: Assessing the heart on routine, ungated chest CT Room 1

Moderators: J. Bremerich, Basle/CH; S. Padley, London/UK

- 08:30 What to do about incidental extrapulmonary findings in the heart: A practical approach
L. Natale, Rome/IT
- 08:46 Evaluating the pulmonary veins before and after ablation
M. Das, Duisburg/DE
- 09:02 Coronary calcium scoring on ungated CT: As useful as dedicated scoring on gated CT?
R. Vliegenthart, Groningen/NL
- 09:18 Cardiac calcifications: What do they tell us?
F. Pontana, Lille/FR
- 09:34 Discussion

08:30-09:45 Scientific Session 5: ILD Room 2

Moderators: A. Devaraj, London/UK; G. Meirelles, Sao Paulo/BR

- 08:30 Keynote lecture
G. Meirelles, Sao Paulo/BR
- 08:35 Bronchiolocentric interstitial pneumonia: tomographic patterns of bronchopulmonary abnormalities.
M.K.S. Santos, Ribeirao Preto/BR
- 08:45 The Sum of Usual Interstitial Pneumonia (UIP) and Emphysema is Equal to Combined Pulmonary Fibrosis and Emphysema (CPFE): A Study of HRCT
Z.N. Tekin, Istanbul/TR
- 08:55 Increased in- and expiratory CT Density Changes reveal possible Abnormalities in Idiopathic Pulmonary Fibrosis, Hypersensitivity Pneumonitis and Systemic Sclerosis
A. Poellinger, Bern/CH
- 09:05 Characterization of interstitial lung disease associated with anti-ribonucleoprotein (RNP) antibodies
P.A. Grenier, Paris/FR
- 09:15 Characteristics of lung disease patterns on CT scan in patients with idiopathic inflammatory myopathies: Is CT pattern related to myositis specific autoantibodies ?
A. Laporte, Neuilly sur seine/FR
- 09:25 Diagnosis of idiopathic pulmonary fibrosis: comparison of the new and old classification
A. Ottavianelli, Rome/IT
- 09:35 The impact of chest CT quality in the diagnosis of Usual Interstitial Pneumonia (UIP) pattern
A. Farchione, Rome/IT

09:45-10:00 Coffee Break

10:00-11:30 Film Panel Room 1

Moderators: P. Grenier, Paris/FR; N. Howarth, Chêne-Bougeries/CH

Team 1

C. de Margerie-Mellon, Paris/FR; R. Gill, Lexington/US; A. Oikonomou, Toronto/CA; C. Ridge, London/UK

Team 2

L. Goodman, Milwaukee/US; N. Sverzellati, Parma/IT; G. Rubin, Stanford/US; C. White, Baltimore/US


11:30-11:45 Break

11:45-12:45 Industry sponsored lunch symposium Room 1

12:45-13:00 Break



13:00-15:00	Thoracic intervention	Room 1
	<i>Moderators: A. Bankier, Boston/US; J.Y. Gaubert, Marseille/FR</i>	
13:00	Percutaneous lung nodule biopsy: Tips & tricks <i>C. Ridge, London/UK</i>	
13:22	Imaging-guided bronchoscopic biopsy: New indications and strategies <i>J.B. Stern, Paris/FR</i>	
13:44	Percutaneous ablation of lung malignancies <i>J. Klein, Williston/US</i>	
14:06	Pleural interventions <i>F. Gleeson, Oxford/UK</i>	
14:28	Closed chest limited anatomical pulmonary resections: The role of new imaging modalities <i>D. Gossot, Paris/FR</i>	
14:50	Discussion	
13:30-15:00	ESTI meets KSTR - Oral and poster presentations	Room 2
	<i>Moderators: N. Howarth, Chêne-Bougeries/CH; Y-H. Kim, Gwangju/KR</i>	
13:30	A Survey of Institutions with Sixteen Detector-Rows or More CT Scanners for the Introduction of National Lung Cancer Screening Program Using Low-Dose Chest CT in S. Korea <i>S.H. Paik, Deajeon/KR</i>	
13:35	Deep Learning for Classification of A Small (<2cm) Pulmonary Nodule on CT Imaging: A Preliminary Study <i>K.J. Chae, Jeonju/KR</i>	
13:40	Significance of baseline CT assessment for predicting the pulmonary fibrosis during the course of chemotherapy-induced pneumonitis <i>J-Y. Han, Busan/KR</i>	
13:45	Pleural invasion classification of primary lung cancer by 3T MRI with contrast enhanced radial T1-weighted 3D spoiled gradient echo sequence comparison with CT analysis <i>W. Kwon, Wonju/KR</i>	
13:50	Long-term outcome after surgical treatment for part-solid lung cancer less than 3 cm: single institutional experience <i>T.H. Kim, Seoul/KR</i>	
13:55	CT-derived Area and Density of Pectoralis Muscle Associated Disease Severity and Longitudinal Change in Chronic Obstructive Pulmonary Disease <i>S.H. Bak, Chuncheon/KR</i>	
14:00	Is it meaningful to evaluate the thyroid attenuation on unenhanced chest CT? <i>J.J. Woo, Seoul/KR</i>	
14:05	Early detection of chronic complicated bronchopleural fistula after pulmonary resection in longitudinal CT follow up <i>J.W. Baek, Busan/KR</i>	
14:10	The use of low dose chest CT in healthcare workers with latent pulmonary tuberculosis <i>K. Jin, Seoul/KR</i>	
14:15	Therapeutic and monitoring devices in the thorax: Radiographic evaluation of findings and complications <i>J.E. Lee, Gwangju/KR</i>	
14:20	Pattern approach of mosaic attenuation: Radiological anatomy and strategy for differentiation <i>K.-N. Lee, Busan/KR</i>	
14:25	Comorbidities of Lung Emphysema <i>C.H. Park, Cheonan/KR</i>	
14:30	Comparison of digital tomosynthesis and chest radiography for prediction of calcification in pulmonary nodule: A phantom study <i>S. You, Suwon/KR</i>	
14:35	Radiographic findings of intrapulmonary hemorrhage as a complication of clopidogrel use in a patient with acute coronary syndrome <i>E-S. Lee, Seoul/KR</i>	
14:40	Phantom experimental study on radiation dose to doctors using an ambu-bag during head CT scan: Comparison study with non-Pb apron <i>D. Sung, Seoul/KR</i>	
14:45	Diverse clinical and radiologic manifestations of tuberculosis in unusual human body parts from A TO Z: Nobody shall sneak out of the white death <i>K.Y. Lee, Ansan/KR</i>	
14:50	Tumoral and peritumoral CT radiomics for the prediction of ALK (anaplastic lymphoma kinase) and EGFR (epidermal growth factor receptor) mutation in lung adenocarcinoma <i>J.B. Seo, Seoul/KR</i>	
14:55	Discussion	
15:00-15:15	Break	

15:15-15:50	Honorary Membership & Awardings	Room 1
	<i>Moderators: S. Desai, London/UK; M-P. Revel, Paris/FR</i>	
15:15	Honorary Lecture „Why I am happy to be a chest radiologist and what I have to do to keep it that way in 10 years“ <i>C. Schaefer-Prokop, Amersfoort/NL</i>	
15:35	Awardings	
15:50-16:00	Break	
16:00-16:30	General Assembly	Room 1



CME ACCREDITATION

The ESTI-Fleischner 2019 Paris Pre-Congress Workshop, Paris, France, 08/05/2019-08/05/2019 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **3 European CME credits** (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

The ESTI-Fleischner 2019 Joint Meeting, Paris, France, 09/05/2019-11/05/2019 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **16 European CME credits** (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Breakdown of credits per day:	09.05.2019	6.00
	10.05.2019	6.00
	11.05.2019	4.00

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.



DISCLOSURE STATEMENT

POTENTIAL CONFLICT OF INTEREST DISCLOSURES

It is the policy of ESTI (European Society of Thoracic Imaging) to ensure balance, independence, objectivity, and scientific rigour in the congress programme. Knowledge of possible relationships with sponsors of any kind is mandatory in order to reinforce the educational and scientific message and to relieve any suspicion of bias.

Any potential conflict of interest involving the organising committee should be made known so that the audience may form their own judgements about the presentation with a full disclosure of the facts. It is for the audience to determine whether the presenter's external interest may reflect a possible bias in either the work carried out or the conclusions presented.

The ESTI-Fleischner 2019 congress president, Prof.Dr. Marie-Pierre Revel did disclosure the following relationships:

Receipt of honoraria and consultation fees: Sanofi-Aventis

Other support: Guerbet France, GE Medical Systems SCS

The ESTI-Fleischner 2019 congress president, Dr. Charles Powell did disclosure the following relationships:

Receipt of honoraria and consultation fees: Daiichi Sankyo, Inc. and Voluntas, Inc.



ESTI
EUROPEAN SOCIETY OF
THORACIC IMAGING

ESTI-FLEISCHNER 2019 WELCOME RECEPTION

THURSDAY, MAY 09, 17:40
MAISON DE LA CHIMIE, ROOM 8 (EXHIBITION HALL)

We cordially invite you to the ESTI-Fleischner 2019 Welcome Reception, which starts after the scientific programme. Snacks and drinks will be served.

**Take the chance and get in touch with experts and colleagues
from Europe and from all over the world.**

We are looking forward to seeing you!

*All delegates
are welcome!*





GENERAL INFORMATION

CONGRESS VENUE

Fondation Maison de la Chimie
28 bis rue saint Dominique
75 007 Paris
France

ORGANISING SECRETARIAT

Education Congress Research GmbH
c/o ESTI Office
Am Gestade 1
1010 Vienna, Austria
P: +43 1 5334064-900
E: office@myESTI.org

ONSITE CONGRESS OFFICE

In case of any questions, kindly consult the registration desk, staff persons will be happy to assist you.

REGISTRATION DESK OPENING HOURS

Wednesday, May 08: 12:00-18:00
Thursday, May 09: 07:30-18:00
Friday, May 10: 08:00-18:10
Saturday, May 11: 08:00-16:30

CONFERENCE LANGUAGE

The meeting will be held in English. No simultaneous translation will be offered.

REGISTRATION FEE FOR DELEGATES INCLUDES

- admittance to all scientific sessions
- admittance to the industry exhibition
- congress programme and abstracts syllabus
- certificate of attendance
- coffee breaks

BADGE/TICKETS

You are kindly asked to wear your badge visible on the congress grounds at all time. Pre-ordered evening events tickets will be handed out additionally to the congress badge (if you have not received your pre-ordered tickets, please contact the registration staff members). Evening event tickets may be purchased onsite at the registration desk upon availability.

DIPLOMA EXAMINATION

The ESTI Diploma examination takes place on Saturday, May 11, 2019. Candidates are asked to identify themselves at the registration desk beforehand.

INTERNET/WIFI

All participants have complimentary internet/WIFI access. Please login to the network „Wifi_MC“ and open an internet page. After indicating your firstname, lastname name and email address, you are connected.

MEDIA CENTER

The media center is located on the entrance level, in room number 7. Trained staff will be available to assist you with the equipment. The media center should only be used for a test run of your presentation(s). Please note that the media center should not be used to prepare your entire presentation and that due to the large number of speakers, the workstations are only available for minor editing.

GUIDELINES FOR SPEAKERS

- You are kindly requested to submit your presentation at least two hours before your session starts (USB sticks are recommended).
- All presentations have to be uploaded in the conference IT-system. No personal computer will be accepted for projection.
- Please be at the lecture room at the latest five minutes prior to the start of your session and identify yourself to the moderators.
- Kindly observe your exact presentation time. Each session contains enough time for discussion. Exceeding the time limit will not be accepted and the moderators are requested to stop presentations in such cases.

EPOS™ AREA

ESTI-Fleischner 2019 is using EPOS™, the Electronic Presentation Online System, the electronic format of the scientific exhibition developed by the European Congress of Radiology (ECR). EPOS™ offers a much greater flexibility than traditional scientific exhibits and provides better options for scientific communication. The EPOS™ area is located on the entrance level, in room number 33, in a quiet area next to the media center. All accepted posters can be viewed online from May 09-10.

Use your own device to browse through the posters:
<http://postereng.netkey.at/esti/viewing/>

Opening Hours:

Thursday, May 09	08:30-17:40
Friday, May 10	08:30-18:10

10 MINUTES ON...

Radiation dose reduction in computed tomography

On-line CME course for Radiologists

Scientific Director

Mathias Prokop

Department of Radiology and Nuclear Medicine

Radboud University Medical Center, Nijmegen, The Netherlands

Register
now!

BACKGROUND

Despite general consensus on the benefit to the patient of computed tomography when used for appropriate indications, concerns have been raised regarding the potential risk of CT radiation-induced cancer resulting from the exponential increase in the use of CT in medicine. Keeping radiation dose as low as reasonably achievable, consistent with the diagnostic task, remains the most important factor in reducing this potential risk.

OBJECTIVES

This course is aimed at providing practical approaches to reduce radiation dose in the use of CT in a real-world clinical setting. Moreover another purpose of this course is to help fill the gap between the educational needs of radiologists and currently available resources.

STRUCTURE

The course is structured in 3 e-learning modules:

- MODULE 1.** Radiation dose: overview of the issue and general technical strategies for its reduction
- MODULE 2.** Examination-specific dose-reduction techniques (CT Angiography of the abdomen)
- MODULE 3.** Examination-specific dose-reduction techniques (perfusion CT, abdominal imaging) and future perspectives in radiation-dose reduction

The contents are presented as:

- Three 10-minute video-commented slideshows
- Clinical cases with clinical decision points
- Further reading (for Italian radiologists only)

N. 3 ECMECs (Europe) N. 4 CME credits (Italy)

FACULTY

Scientific Director and Teacher Module 1:

Mathias Prokop. Department of Radiology and Nuclear Medicine, Radboud University Medical Center, Nijmegen, The Netherlands

Teacher Module 2:

Christian Loewe. Department of Biomedical Imaging and Image-Guided Therapy, Division of Cardiovascular and Interventional Radiology, Medical University of Vienna, Vienna, Austria

Teacher Module 3:

Maria Antonietta Mazzei. Department of Medical, Surgical and Neuro Sciences, Diagnostic Imaging, University of Siena, Italy

The course is accessible from the **MDCT.net** website:

<http://mdct.net> (and other Springer Healthcare channels).

Do not wait any longer to register!

For further information or assistance, please contact ecm.springeritaly@springernature.com



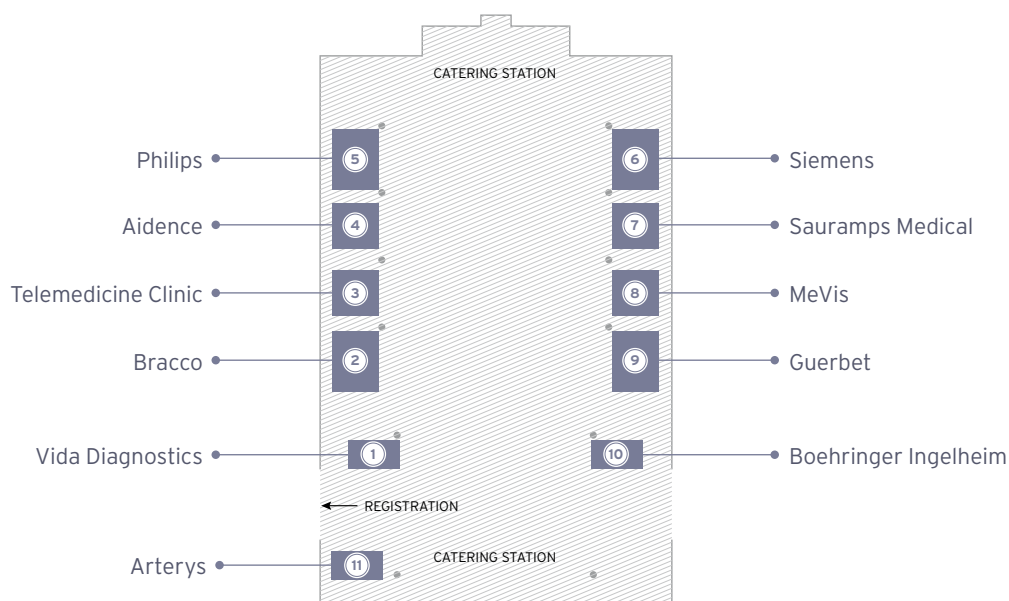
INDUSTRY EXHIBITION

The support received from our industry partners is invaluable to the success of the meeting. It is through their support in which many facets of the meeting are made possible. When thinking of their support, it does not only include monetary donations, but also their time. Annually, we encourage all attendees to visit the exhibits and interact with the companies.

Opening Hours

Thursday, May 09 08:30-17:40 // Friday, May 10 08:30-18:10 // Saturday, May 11 08:30-16:00

Exhibition Plan



INDUSTRY SPONSORED SYMPOSIUM/ SLOT ATTENDANCE

Attendees of any industry sponsored symposium/slot agree that their registration details will be forwarded to the company organising that symposium. This agreement may be cancelled at any time by writing to the ESTI Office.

LEAD RETRIEVAL SYSTEM

Your name badge is your business card. ESTI and its sponsors are using a lead retrieval system during the congress. In practice that means that when you present your badge for scanning at an exhibition booth or for scanning when entering an industry sponsored symposium, the following personal data can be retrieved:

Exhibition booth: firstname, lastname, address details, email address, profession

Industry sponsored symposium/slot: firstname, lastname, city, country

MOBILE PHONES

Please do not forget to switch off your mobile phones before entering any of the lecture rooms.

BREAKS

Complimentary coffee, tea and refreshments will be served during the official coffee breaks to all meeting delegates.

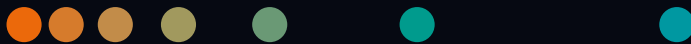
RECORDING

Photo-, video- or audio-recording of any sessions or presentations is not allowed without the speaker's/organiser's prior written permission.

FUTURE MEETING DESK

This area - located on the entrance level - offers you an overview of future meetings in the field of radiology and related disciplines, from all over the world. Feel free to contribute flyers and posters to promote your own meetings and courses.

We enable healthcare providers to increase value



At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all made possible by digitalizing healthcare.

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We are a leading medical technology company with over 120 years of experience and 18,000 patents globally. Through the dedication of more than 50,000 colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

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ABSTRACT SYLLABUS

The abstract syllabus (invited, oral and poster abstracts) is available online at the ESTI website.

AWARDS

On occasion of the 2019 Paris congress, we are happy to award the best oral and poster presentation. Both prizes are supported with 250 EUR each. The two winners will be announced in the awarding session on Saturday, May 11, at 15:15 in room 1. Please note that presence at the closing session is obligatory to receive the prize.

ONSITE PAYMENT

Onsite payment can only be made by credit card (Visa or Mastercard) or in cash (Euro). Please be informed that no other payment facilities such as debit cards, cheques, etc. will be accepted.

CERTIFICATE OF ATTENDANCE

The Certificate of Attendance can be downloaded after the congress upon entering the ESTI MyUserArea. To enter the ESTI MyUserArea, please login with your username in combination with your personal password.

ESTI-FLEISCHNER 2019 PHOTOS

Please note, photos will be taken by a professional photographer during the congress and a selection will be published on the ESTI website in our picture gallery!

SAFETY

The safety of all congress delegates and participants is of utmost importance to the Education Congress Research GmbH/ESTI-Fleischner 2019. Security measures and precautions at the ESTI-Fleischner 2019 venue have been tightened to ensure maximum security for all attendees. Badges must be worn visibly on the congress grounds at all time. The Education Congress Research GmbH/ESTI-Fleischner 2019 reserves the right for staff to check participants' identification upon admission to and/or inside the congress venue. Participants may at any time be requested to present adequate proof of identity in the form of a passport, driver's license, national or military identification or student ID. Documents for the proof of identity must include a photograph and signature.

DISCLAIMER/LIABILITY

Education Congress Research GmbH/ESTI-Fleischner 2019 cannot accept any liability for the acts of the suppliers to this meeting or the attendees' safety while travelling to or from the congress. All participants and accompanying persons are strongly advised to carry adequate travel and health insurance, as Education Congress Research GmbH/ESTI-Fleischner 2019 cannot accept liability for accidents or injuries that may occur. Education Congress Research GmbH/ESTI-Fleischner 2019 are not liable for personal injury and loss or damage of private property.



ESTI-FLEISCHNER 2019 GALA DINNER

Dear colleagues and friends,

on behalf of the ESTI-Fleischner 2019 Congress Presidents, Prof.Dr. Marie-Pierre Revel and Dr. Charles Powell, we would like to cordially invite you to join this year's Gala Dinner.

Your ticket to a spectacular event with unique ambience and outstanding quality!

Participants are welcome to join the boat dinner on „Le Diamant Bleu“. Please note, tickets are limited and will be offered on a first-come, first-served basis. Tickets can be purchased at the registration desk upon availability. Price per ticket: 80 EUR incl. VAT

The Education Congress Research GmbH/ESTI-Fleischner 2019 may not accept liability for personal injury, loss/damage to property, personal or otherwise belongings of participants and/or accompanying persons, either during or as a result of an evening event.



ESTI 2020

28th ANNUAL SCIENTIFIC MEETING OF THE
EUROPEAN SOCIETY OF THORACIC IMAGING

JUNE 04-06, 2020
OXFORD, UNITED KINGDOM

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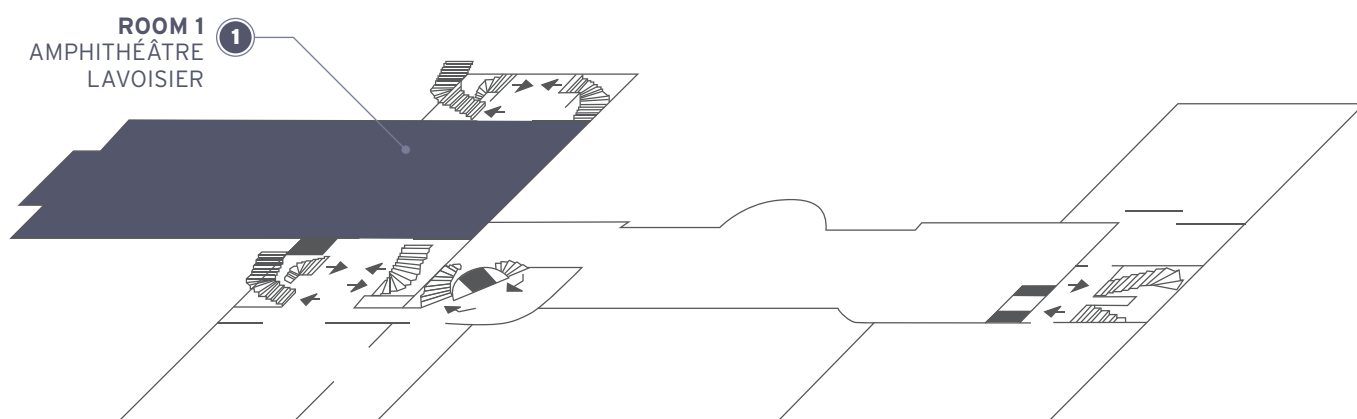
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of it!*



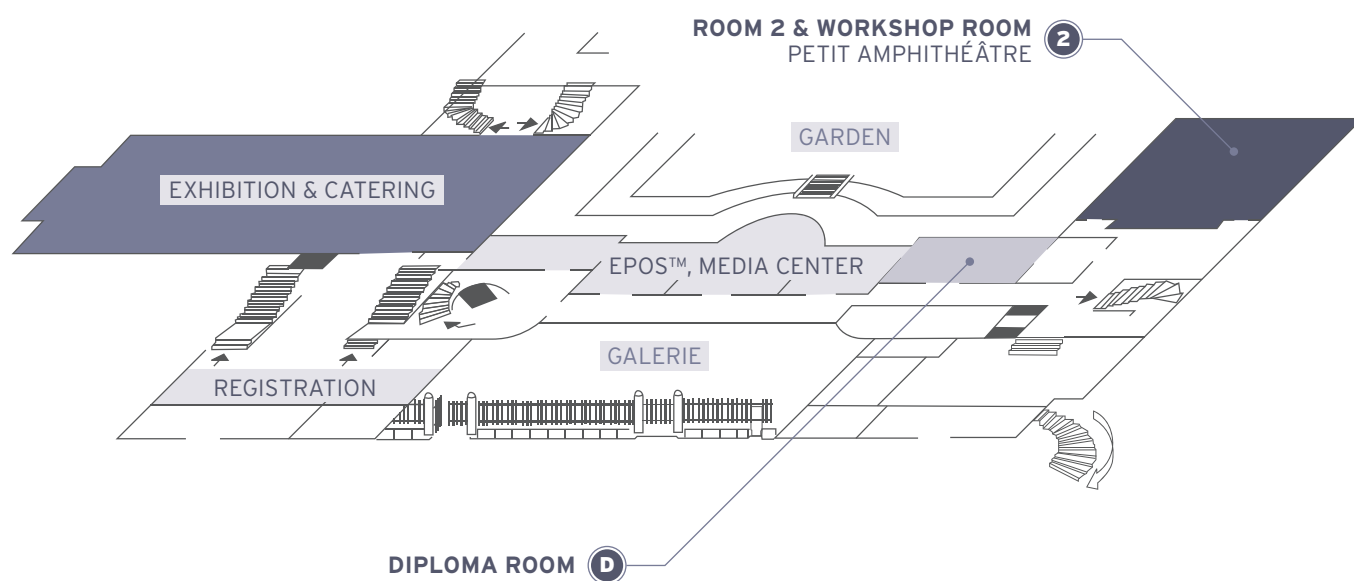


FLOORPLAN

1ST FLOOR



GROUND FLOOR





INDUSTRY SPONSORED LUNCH SYMPOSIA/COMPANY SLOTS

THURSDAY, MAY 09, 12:15-13:15, ROOM 1

Chronic thromboembolic pulmonary hypertension (CTEPH)

M. Remy-Jardin, University Hospital Lille/FR

Clinical outcomes of 3T lung MRI

M. Lederlin, University Hospital Rennes/FR

Clear Direction in CT - Advanced efficiencies for better patient care

B. Schmidt, Head of CT Scanner Applications, Siemens Healthineers, Forchheim/DE



FRIDAY, MAY 10, 10:00-10:30, ROOM 1

Radiation dose management in CT: The role of contrast media

M. Prokop, Radboud University Medical Centre, Nijmegen/NL



FRIDAY, MAY 10, 12:45-13:45, ROOM 1

„Latest innovations for thoracic and cardiovascular CT imaging“

Moderator: F. Gleeson, Oxford/UK

Lung cancer screening: which tools for nodule detection and volumetry?

A.R. Larici, Rome/IT

Spectral Imaging use in Chronic Pulmonary Thromboembolism

G. Ferretti, Grenoble/FR

Artificial intelligence: the new way to your best CT image

L. Macron, Saint Denis/FR



GE Healthcare

SATURDAY, MAY 11, 11:45-12:45, ROOM 1

Advanced CT imaging in Chest diagnosis

M. Prokop, Radboud University Medical Centre, Nijmegen/NL

Challenges of Canon 3T MR Imaging for Chest Diseases: Its' Progress and Future Direction

Y. Ohno, Fujita Health University School of Medicine, Toyoake/JP





SPONSORS

We thank our industry partners for their highly appreciated support of ESTI-Fleischner 2019:





ESTI WINTER COURSE 2019

December 12-14, 2019
TROMSØ, NORWAY

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REGISTRATION
IS NOW OPEN!





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