



**MAY
25-28
2022**

Timișoara,
Romania

REPORT 2022



wfumb2022.com



**WFUMB
CONGRESS
2022**
TIMIȘOARA
World Capital of Ultrasound

**18th World Federation
for Ultrasound in Medicine
and Biology Congress**



**EUROSON
CONGRESS
2022**

**33rd Congress of European
Federation of Societies for
Ultrasound in Medicine and Biology**



**SRUMB
CONGRESS
2022**

**25th National Conference of
Romanian Society of Ultrasound
in Medicine and Biology**



**STUC
CONGRESS
2022**

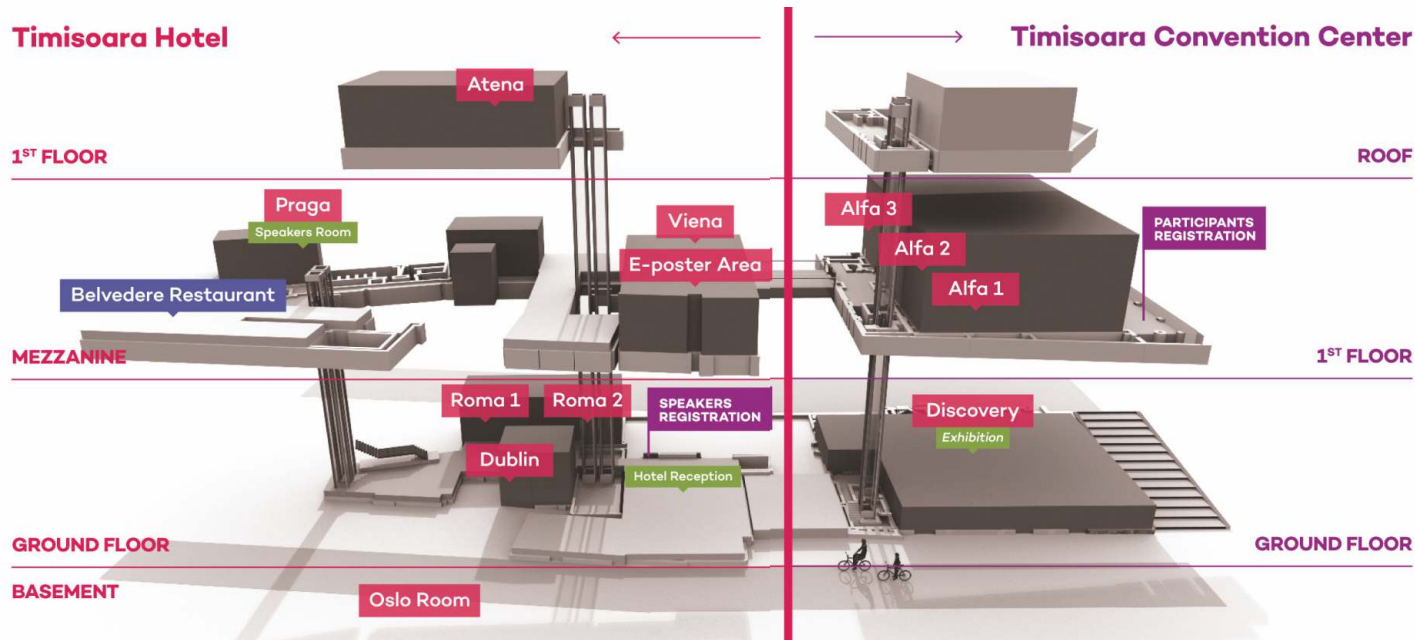
**WFUMB-EFSUMB
Student Ultrasound Congress
May 27-28, 2022**



Venue

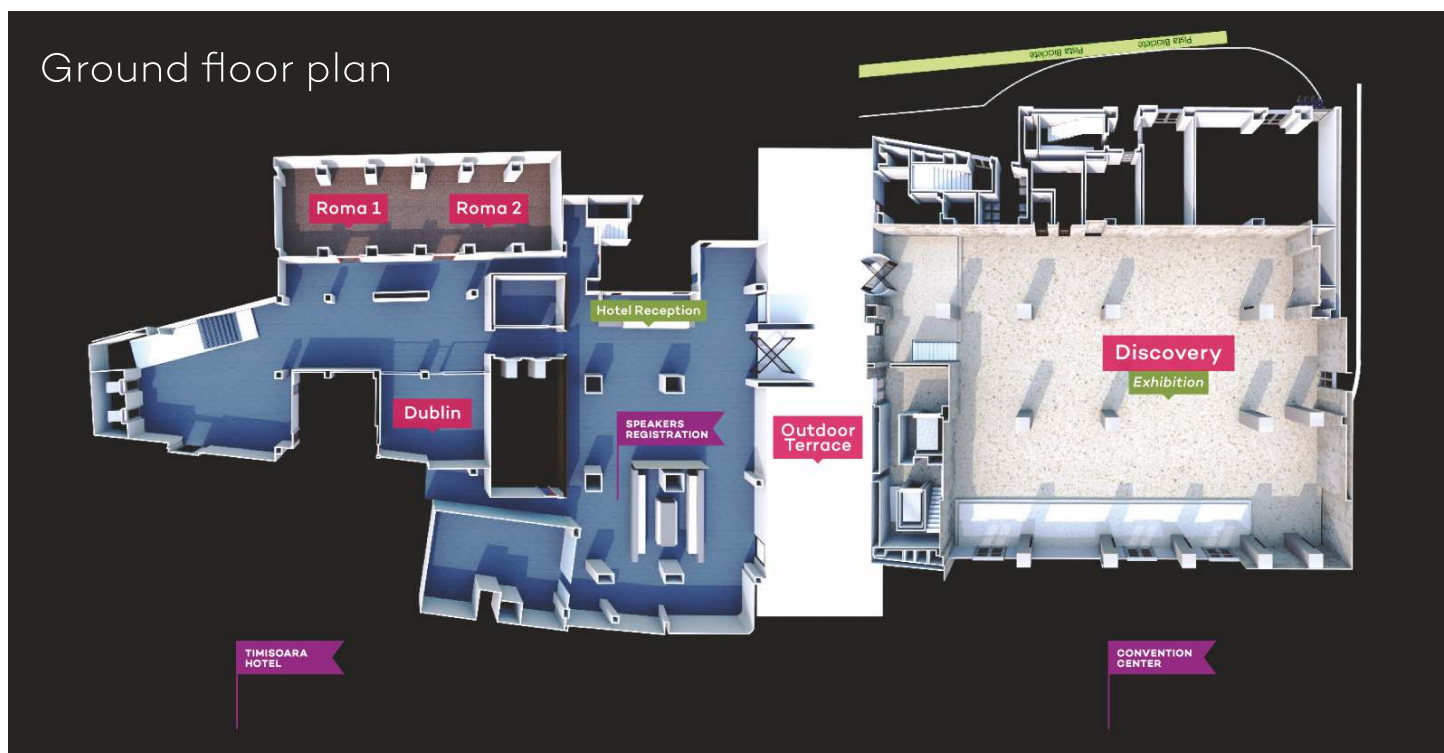
TIMISOARA CONVENTION CENTER

Marasesti street, no. 1-3
300086, Timisoara
Romania

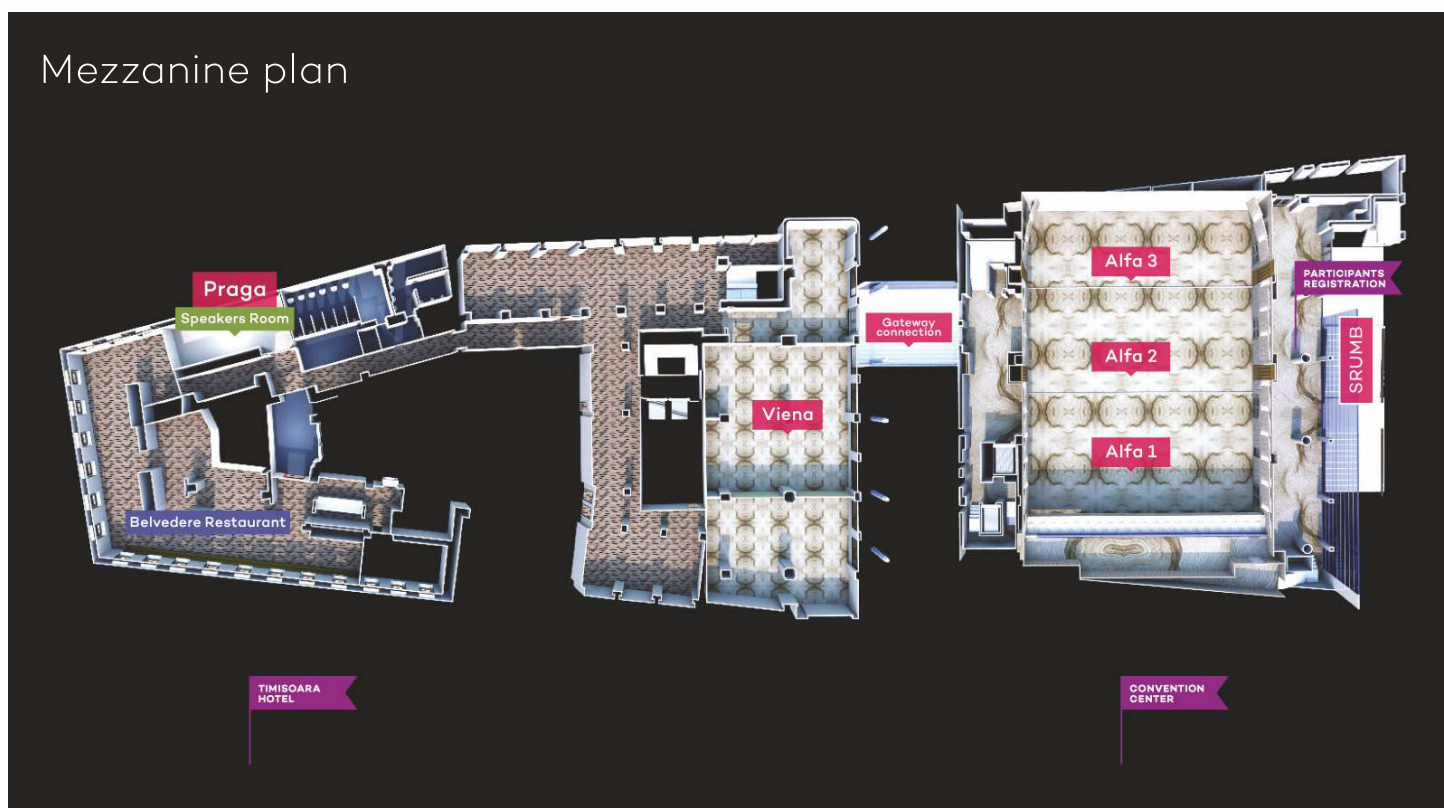


Venue

Ground floor plan



Mezzanine plan



Committees

Scientific Committee

Ioan Sporea

(Romania)

Congress President

Cristina Chammas

(Brazil)

WFUMB President,
Congress
Co-President

Christian Jenssen

(Germany)

EFSUMB President,
Congress
Co-President

Alina Popescu

(Romania)

SRUMB President,
Congress
Co-President

Seung H Kim

(South Korea)

Antonio Carlos

Matteoni de

Athayde

(Brazil)

Zeno Spârchez

(Romania)

Ciprian Brisc

(Romania)

Jacques

Abramowicz

(USA)

Won Jae Lee

(South Korea)

Julian Kuenzel

(Germany)

Titus Șuteu

(Romania)

Leandro Fernandez

(Venezuela)

Dieter Nürnberg

(Germany)

Giovanna Ferraioli

(Italy)

Dan Stănescu

(Romania)

Sudhir Vinayak

(Kenya)

Roxana Șirli

(Romania)

Dominique Amy

(France)

Romeo Chira

(Romania)

George Condous

(Australia)

Caroline Ewertsen

(Denmark)

Plamen Todorov

(Bulgaria)

Carolina Solomon

(Romania)

Christian Pallson

Nolsø

(Denmark)

Adrian Săftoiu

(Romania)

Daniel Lichtenstein

(France)

Cătălina Mihai

(Romania)

Yi-Hong Chou

(Taiwan)

Helmut Prosch

(Austria)

Fabio Piscaglia

(Italy)

Mirela Dănilă

(Romania)

Christoph F.

Dietrich

(Germany)

Vito Cantisani

(Italy)

Boris Brkljačić

(Croatia)

Daniela Chiriac

(Romania)

Odd Helge Gilja

(Norway)

Adrian Lim

(UK)

Mirela Gliga

(Romania)

Adela Golea

(Romania)

Paul Sidhu

(UK)

Maija Radzina

(Latvia)

Daniela Fodor

(Romania)

Dana Stoian

(Romania)

Iwaki Akiyama

(Japan)

Christian Kollmann

(Austria)

Petru Adrian

Mircea

(Romania)

Mihai Iacob

(Romania)

Sue Westerway

(Australia)

Matthias Wüstner

(Germany)

Radu Badea

(Romania)

Local Organizing Committee

Ioan Sporea

Alina Popescu

Roxana Șirli

Mirela Dănilă

Adrian Goldiș

Iulia Rațiu

Bogdan Miulescu

Tudor Moga

Anamaria

Ghiuchici

Felix Bende

Ruxandra Mare

Camelia Foncea

Andreea

Bărbulescu

Alexandru Popa

Călin Burciu

Raluca Lupușoru

Radu Cotrău

Greta Dancu

Darius Heredea

Adrian Burdan

Ariana Pascu

Patricia Lupulescu

Cristina Deiak

Andrei Ionițoiu

Deiana Vulețici

Oana Budii

Andreea Corobea

Andreea Brașovan

Christian Banciu

Monica Scorobete

Ramona Asâi





WFUMB
CONGRESS
2022
TIMIȘOARA
World Capital of Ultrasound



EUROSON
CONGRESS
2022



SRUMB
CONGRESS
2022



STUC
CONGRESS
2022



MAY
25-28
2022

Timișoara,
Romania



wfumb2022.com

Participants

1. Attendees

1109 Registered

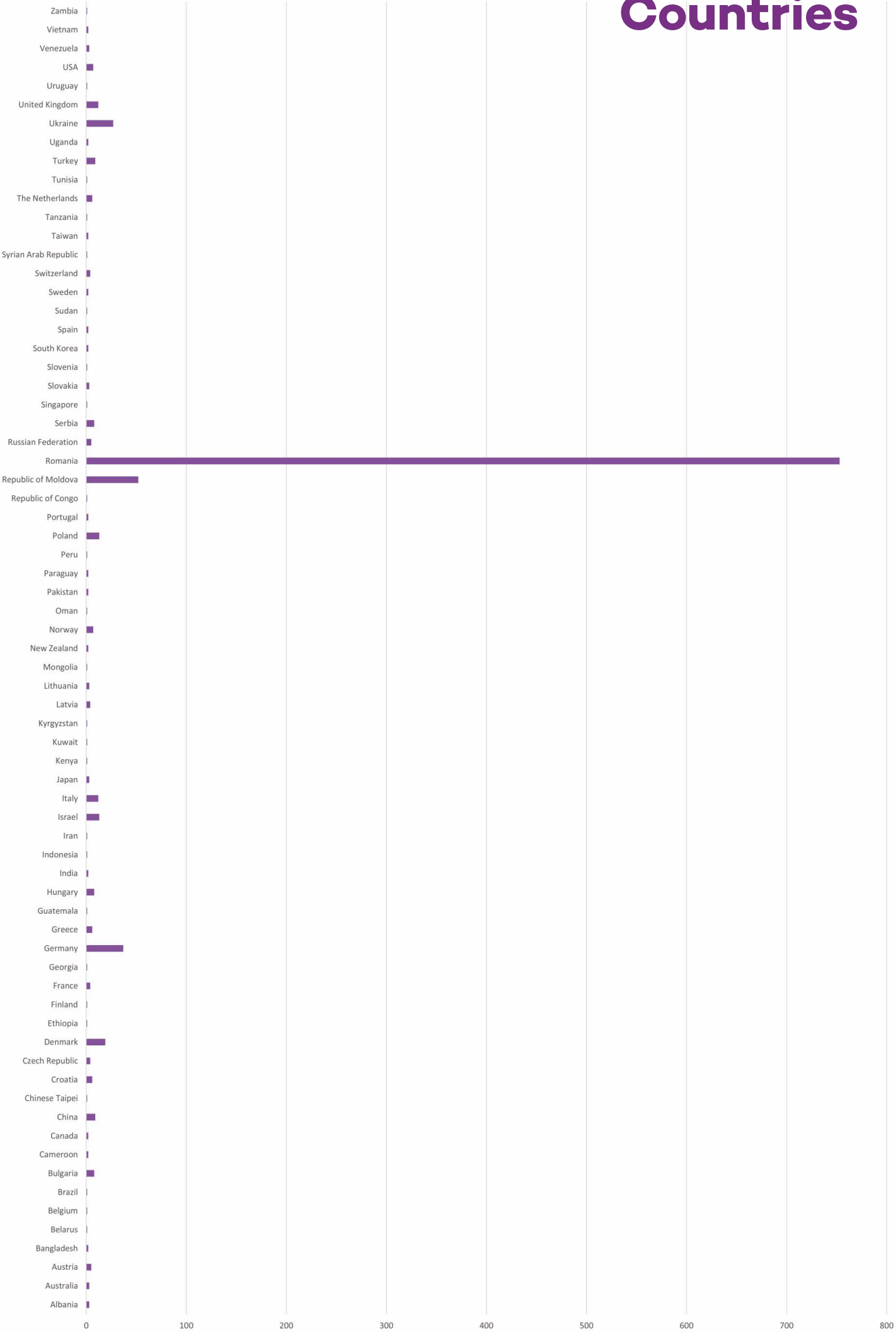
- **844** Participants
 - **192** Medical Students
- **158** Invited Speakers
- **107** Exhibitors

2. Demographics

70 Countries

Albania 3	India 2	Russian Federation 5
Australia 3	Indonesia 1	Serbia 8
Austria 5	Iran 1	Singapore 1
Bangladesh 2	Israel 13	Slovakia 3
Belarus 1	Italy 12	Slovenia 1
Belgium 1	Japan 3	South Korea 2
Brazil 1	Kenya 1	Spain 2
Bulgaria 8	Kuwait 1	Sudan 1
Cameroon 2	Kyrgyzstan 1	Sweden 2
Canada 2	Latvia 4	Switzerland 4
China 9	Lithuania 3	Syrian Arab Republic 1
Chinese Taipei 1	Mongolia 1	Taiwan 2
Croatia 6	New Zealand 2	Tanzania 1
Czech Republic 4	Norway 7	The Netherlands 6
Denmark 19	Oman 1	Tunisia 1
Ethiopia 1	Pakistan 2	Turkey 9
Finland 1	Paraguay 2	Uganda 2
France 4	Peru 1	Ukraine 27
Georgia 1	Poland 13	United Kingdom 12
Germany 37	Portugal 2	Uruguay 1
Greece 6	Republic of Congo 1	USA 7
Guatemala 1	Republic of Moldova 52	Venezuela 3
Hungary 8	Romania 753	Vietnam 2
		Zambia 1

Countries



3. Scientific program structure

8 congress rooms

8 pre-congress courses

- **3** sessions each (**24** sessions of pre-congress courses)
- **127** presentations

57 congress sessions

- **57** congress sessions
- **296** invited speakers presentations
- **44** Oral Presentations
- **12** Oral Case Reports
- **28** Poster Case Reports
- **98** Poster Presentations

5 Symposia

Special Lectures Session

- EUROSON Honorary Lecture - **Suha Sureyya Ozbek**
 - Urinary Tract Dilation Classification for Paediatric Urinary System
- EUROSON Honorary lecture - **Maija Radzina**
 - Advances in parathyroid gland ultrasound
- DEGUM Lecture - **Constantin von Kaiserberg**
 - Setting up and improving standards for diagnostic imaging guidelines: the DEGUM approach
- Hans Henrik Holm Lecture - **Christian Borbjerg Laursen**
 - Lung ultrasound: current concepts and future aspects

Special Session 50 Years of EFSUMB

- A short Introduction into the History of Ultrasound
Christoph F. Dietrich
- 50 years of EFSUMB - the history of the European Ultrasound Family
Christian Jenssen
- Highlights and Nightmares - Memorabilia of a former EFSUMB and WFUMB President
Christian P. Nolsoe
- Romanian Society of Ultrasound in Medicine and Biology: 25th anniversary
Petru Adrian Mircea
- The way of Ultrasound into the Premier League of Imaging - Milestones
Paul Sidhu
- The German Ultrasound Museum – keeping history alive
Dieter Nürnberg
- The Anniversary Quiz – which answers were correct and why?
Prize Award Ceremony
Christian Jenssen, Lynne Rudd

Special Session 25 Years of SRUMB

- SRUMB Invited Lecture - "Gheorghe Badea" Lecture - The journey of vascular ultrasound
Sorin Dudea
- SRUMB Invited Lecture - "Gheorghe Jovin" Lecture - Point of care Ultrasound in general practice
Viorela Enăchescu
- 25 years of SRUMB
Petru Adrian Mircea

Program at a glance

Wednesday, May 25th / Pre-Congress Courses

[illegible]

Thursday, May 26th

Day 1 congress

Hour/Room	Room 1 - Alfa 1	Room 2 - Alfa 2	Room 3 - Alfa 3	Room 4 - Atena	Room 5 - Viena	Room 6 - Roma 1	Room 7 - Roma 2	Room 8 - Oslo
09:00-11:00	S1. CEUS Liver Chairmen: Stephanie Wilson, Hans-Peter Weskott	S2. Lung US Chairmen: Helmut Prosch, Zeno Spârchez	S3. COE Timisoara - What is new in US? Chairmen: Ioan Sporea, Alina Popescu	S4. Breast Chairmen: Dominique Amy, Boris Brkljačić	S5. Testis Ultrasound Chairmen: Adnan Kabaalloğlu, Mustafa Seçil	S6. Liver elastography Chairmen: Richard Barr, Sebastian Müller	S7. Echocardiography for non-cardiologist Chairmen: Adina Ionac, Cristian Mornoș	S8. Original research presentations Chairmen: Cristina Chammas, Christian Jenssen
11:00-11:30	Coffee break							
11:30-13:00	S9. Abdomen - Pancreas Chairmen: Mirko D'Onoffrio, Mariana Jinga	S10. Musculoskeletal US and Rheumatology Chairmen: Daniela Fodor, Fernando Jimenez	S11. WFUMB Centers of Education Chairmen: Christian Pallson Nolsøe, Leandro Fernandez, Odd Helge Gilja	S12. US in dermatology Chairmen: Fernando Alfageme Roldán, Diana Crișan	S13. Emergency US Chairmen: Milan Kocián, Fabio Piscaglia	S14. EFSUMB EPSC/Pub Comm Session Chairmen: Matthias Wüstner & Zeno Spârchez	S15. Abdominal pediatric ultrasound Chairmen: Hassen A. Gharbi, György Harmat	S16. Interactive clinical cases Chairmen: Petru Adrian Mircea, Ioan Tofolean
13:00-15:00	Lunch							
13:30-14:30	Bracco Lunch Symposium Clinical value of contrast enhanced ultrasound (CEUS) in liver imaging	Samsung Lunch Symposium WFUMB 2022 Samsung VIP Hands on Session “One Stop Shop” for the management of patients with NAFLD	13.30 - 14.00 Siemens Breaking News: Novel Technologies on Liver Fat Quantification and Stiffness assessment					
15:00-17:00	Special Lectures: EFSUMB1, EFSUMB2, DEGUM, Hans-Henrik Holm Chairmen: Christian Jenssen, Adrian Săftoiu	S17. Elastography - Nonhepatic applications Chairmen: Carolina Solomon, Caroline Ewertsen	S18. WFUMB Centers of Education Activity Report Chairmen: Odd Helge Gilja, Dieter Nürnberg	S19. Vascular US Chairmen: Diana Gaitini, Sorin Dudea	S20. US for GP Chairmen: Matteo Rosselli, Mateusz Kosiak	S21. INVUS Chairmen: Torben Lorentzen, Petru Adrian Mircea	S22. Obstetrics Chairmen: Panos Ansaklis, Nihal Al-Riyami	S23. Oral case reports Chairmen: Viorela Enăchescu, Mirela Gliga
18:30-20:30	Opening Ceremony - The Opera House							
20:30-22:00	Welcome Cocktail in the Exhibition - Hotel Timisoara							

Friday, May 27th / Day 2 Congress

Hour/Room	Room 1 - Alfa 1	Room 2 - Alfa 2	Room 3 - Alfa 3	Room 4 - Atena	Room 5 - Viena	Room 6 - Roma 1	Room 7 - Roma 2	Room 8 - Oslo
09:00-11:00	S24. GIUS 1 Chairmen: Christian Pallson Nolsøe, Odd Helge Gilja	S25. Young Investigators Award - EFSUMB - Chairmen: Mathias Wuerstner, Zeno Sparchez	S26.CEUS Chairmen: Cristina Chammas, Ákos Járay	S27. US of the thorax Chairmen: Helmut Prosch, Milan Kocián	S28. Imaging techniques in HCC Chairmen: Stephanie Wilson, Fabio Piscaglia	S29. US Therapies and More Chairmen: Iwaki Akiyama, Carmel Moran	S30. Prostate MPUS Chairmen: Francesco Maria Drudi, Dirk André Clevert	
11:00-11:30	Coffee break							
11:30-13:00	S31. GIUS 2 Chairmen: Giovanni Maconi, Kim Nylund	S32. WFUMB Young Investigator Session - Chairmen: Leandro Fernandez, Christian Pallson Nolsøe	S33. Joint Safety Session: WFUMB-ECMUS Chairmen: Christian Kollmann, Brian Fowlkes	S34. US techniques in PHT Chairmen: Bogdan Procopet, Ivica Grgurevic	S35. Abdomen interventional US Chairmen: Liat Appelbaum, Cem Yucel	S36. Neonatal and Pediatric US Chairmen: Polina Pavičević, György Harmat	S37. EUS Chairmen: Roald Flesland Havre, Andrada Seicean	
13:00-15:00	Lunch							
13:30-14:30	General Electric Lunch Symposium Multi-parametric Ultrasound in the management of patients with Liver disease: from CLD to FLLs, from diagnostics to interventional procedures	Mindray Lunch Symposium The Art of innovation						
15:00-17:00	SRUMB - 25 years Chairmen: Ioan Sporea, Alina Popescu	S38. CEUS - nonliver applications Chairmen: Vito Cantisani, Brian Fowlkes	S39. New Trends in US (AI, Innovations) Chairmen: Christoph F Dietrich, Martin Krix	S40. Thyroid US Chairmen: Cristina Chammas, Elene Gotsiridze	S41. POCUS in nephro-urology Chairmen: Jan Tuma, Flaviu Bob	S42. Joint ESNCH /EFSUMB Session (European Society for Neurosonology and Cerebral Hemodynamics) Chairmen: Eva Bartels, Zsolt Garami	S43. US in Gynecology Chairmen: Claudiu Marginean, Sergiu Puu	Hands-On Samsung
17:00-18:00	SRUMB General Assembly							
19:30-23:30	Get together party - Fratelli By The River 1, Corneliu Coposu Blvd							

Abstracts

182 accepted abstracts

- **44** oral presentations
- **12** oral case reports
- **28** poster case reports
- **98** poster presentations



Accreditation

The 18th World Federation for Ultrasound in Medicine and Biology Congress Timisoara, Romania, 25/05/2022-28/05/2022 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 19 European CME credits (ECMEC®s).

Awards

EFSUMB Best Case reports:

Importance of standard abdominal ultrasonography in incidental diagnosis of pseudomyxoma peritonei in a poor symptomatic patient

Camelia - Cristiana Bigea, Maria-Lorena Ungureanu, Mihaela-Roxana Cituran, Alexandra-Georgiana Bocioaga, Ion Rogoveanu, Carmen-Daniela Neagoe (Romania)

SRUMB Best Case reports:

1. An unusual CEUS finding in a patient with carcinoid syndrome

Elena Codruta Gheorghe, Maria Stoica, Anca Dimitriu, Daniela Elena Burtea, Nona Bejinariu, Adrian Saftoiu (Romania)

2. A rare and unexpected case of intestinal obstruction - gallstone ileus

Mihaela Tanco, Ioan Tiberiu Tofolean (Romania)

Best Oral presentation:

WFUMB

3D ultrasound versus computed tomography as ex-vivo imaging of surgical specimens – a pilot study on animal specimen

Fatemeh Makouei, Caroline Ewertsen, Tina Klitmøller Agander, Mikkel Vestergaard Olesen, Bente Pakkenberg, Tobias Todsén (Denmark)

EFSUMB

Fatty liver quantification using Ultrasound Derived Fat Fraction (UDFF) as compared to Controlled Attenuation Parameter (CAP) in a mixed cohort of patients

Ioan Sporea, Raluca Lupusoru, Roxana Sirli, Felix Bende, Radu Cotrau, Camelia Foncea, Alina Popescu (Romania)

Best Oral presentation:

SRUMB

Optical and ultrasound imaging of shear wave generated by laser induced cavitation bubbles

Saber Izak Ghasemian, Fabian Reuter, Claus-Dieter Ohl (Germany)

Best e-Poster presentation:

WFUMB

Long-Term Ultrasound Follow-Up in Patients with Small Gallbladder Polyps

Malene Roland Pedersen, Peter Otto, Søren Rafaelsen

EFSUMB

Sonication Vessels for in Vitro Experiments – Real Profile of Ultrasound Field

Klara Balazova, Martin Snehota, Jaromir Vachutka, Barbora Hosikova, Hana Kolarova

SRUMB

Differentiating Solid Pancreatic Lesions: The Contribution of Eus-Fnb With Contrast-Enhanced Imaging

Irina Florina Cherciu Harbiyeli, Albert Georgescu, Fadel Georges, Alexandra Adriana Fieraru, Elena Daniela Burtea, Adrian Saftoiu



WFUMB Young Investigator Award

Joint First Prize

Craciun Rares – Romania (EFSUMB)

Ultrasound Guided Microwave Ablation and Transarterial Chemoembolization for Unresectable Solitary-Nodule Hepatocellular Carcinoma – a Head-to-Head Survival Comparison

And

Arun Sett- Australia (ASUM)

Lung ultrasound of the dependent lung detects real-time changes in total lung volume in a preterm lamb model

EFSUMB Young Investigator Award

Yizhou Huang – The Netherlands

Quantitative ultrasound imaging of uterine peristalsis and machine learning for prediction of successful fertilization

Social program

25th of May

“Presidential Dinner” at Recas Winery



26th of May

“Opening Ceremony” at National Romanian Opera House Timisoara

“Welcome cocktail” in the Medical Exhibition at Venue Timisoara Convention Center

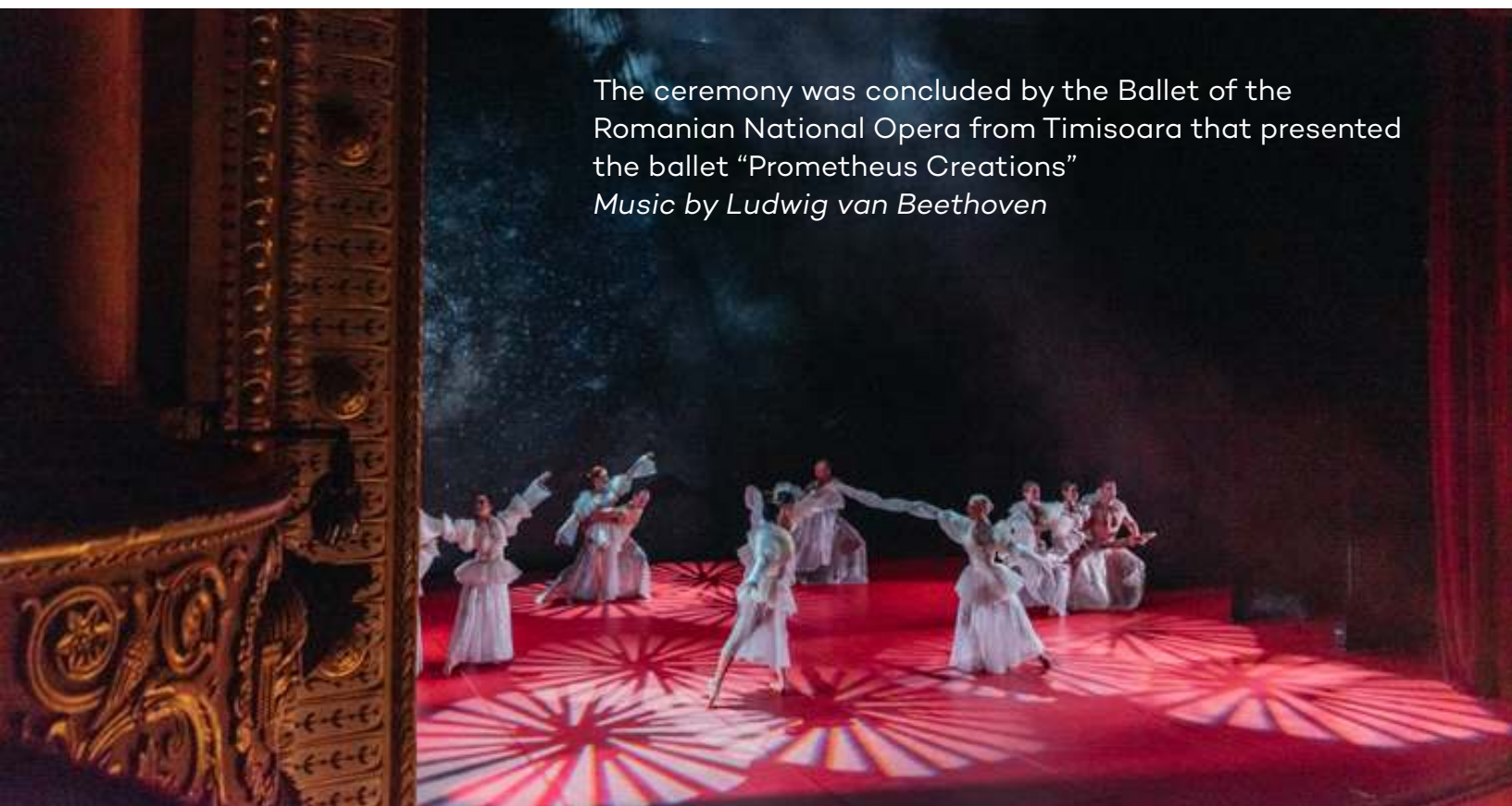
During the Opening ceremony the following were awarded:

- Honorary Membership to Hassen Gharbi
- EFSUMB Honorary Fellowship for Oleg Dynnyk and Iryna Bekalo
- SRUMB Honorary Membership to:
 - Cristina Chammas
 - Jacques Abramowicz
 - Leandro Fernandez
 - Sudhir Vinayak
 - Christian Jenssen
 - Helmut Prosch
 - Caroline Ewertsen
 - Seung H Kim
 - George Condous
- Certificate of Appreciation from SRUMB for Lynne Rudd

for her commitment to both EFSUMB and WFUMB and her continuous support in organizing WFUMB 2022



- Certificate of Appreciation from SRUMB for Dieter Nurnberg and Roxana Sirli for organizing STUC 2022
- Certificates of Appreciation for the Honorary Past Presidents of SRUMB
 - Petru Adrian Mircea
 - Ioan Sporea
 - Radu Badea
 - Dan Adrian Stanescu
 - Sorin Dudea
 - Viorela Enachescu
 - Adrian Saftoiu
 - Alina Popescu



The ceremony was concluded by the Ballet of the Romanian National Opera from Timisoara that presented the ballet "Prometheus Creations"
Music by Ludwig van Beethoven

27th of May

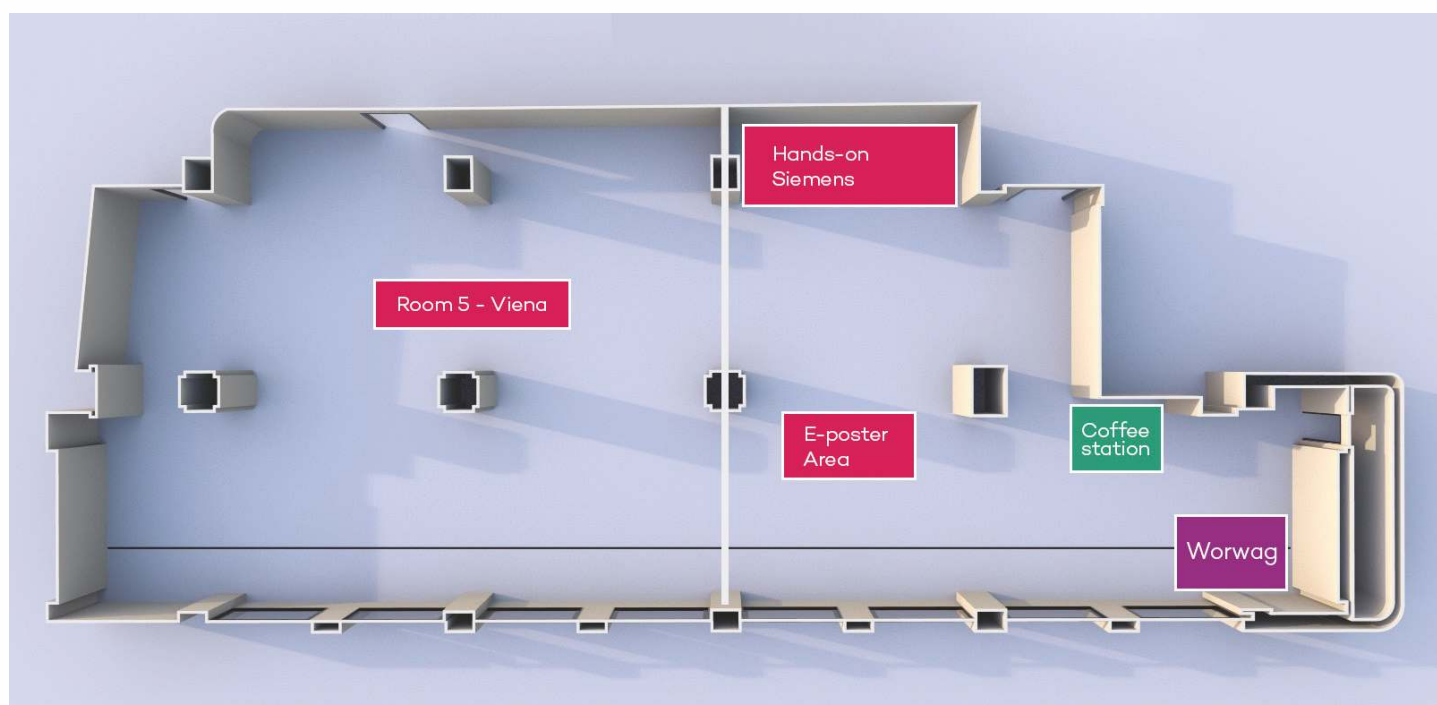
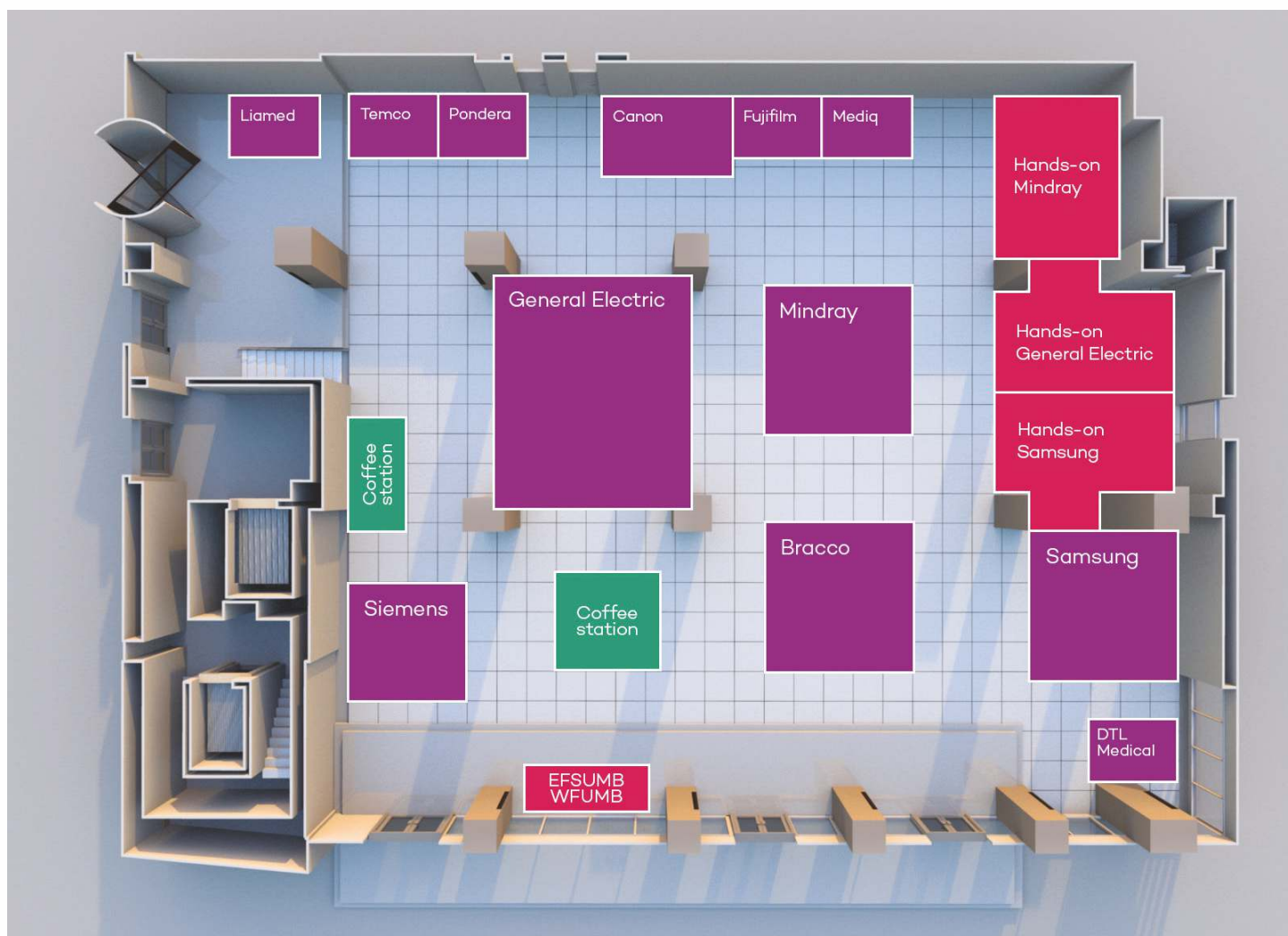
Get together party

Fratelli By The River

Here took place the awarding of prizes to the winners.



Exhibition



PLATINUM



GE Healthcare




MEDIST
Imaging

GOLD



LIFE FROM INSIDE

The Swiss concept in pharmaceuticals 

mindray



SILVER PLUS

SIEMENS
Healthineers

BRONZE

Canon
CANON MEDICAL

FUJIFILM
Value from Innovation

LIAMED 
APARATURA MEDICALĂ | BRASOV

temco
TERMO ELECTRO MEDICAL COMPANY
APARATURA MEDICALĂ, REPREZENTANȚĂ DI SERVICE

MEDIQ
connecting people with
medical innovation

DTL MEDICAL
Diagnostic, Treatment, Life

PONDERA MEDICAL
REPORT DIAGNOSTIC FUNDAMENTAL 

wörwag
PHARMA

PARTNERS



Sun Wave Pharma
Making Tomorrow Healthier

Terapia
a SUN PHARMA company

Labormed
O COMPANIE ZENTIVA



Timișoreana



PROFESSIONAL CONGRESS ORGANIZER

phone +40 364 146 681

fax +40 364 108 990

Cluj-Napoca 400012

3/3 Victor Babes Street

contact@medevents.ro

www.medevents.ro



wfumb2022.com

STUDENT ULTRASOUND CONGRESS 27-28TH 05.2022

TIMISOARA, ROMANIA

Student Ultrasound Congress (STUC) endorsed by the World and European Societies of Ultrasound in Medicine and Biology (WFUMB & EFSUMB) is a scientific manifestation dedicated for medical students. The goal of the event is to familiarize medical students with the advantages and applicability of ultrasound as a diagnostic and interventional procedure.

Venue

**REGIONAL
BUSINESS CENTER
TIMISOARA**

1 Decembrie 1918 Blvd.,
Timisoara
Romania

Scientific program

8 sessions

→ **39** invited speakers presentations

8 hands-on sessions

9 students oral presentations

5 poster presentations

200 participants registered

Social Program

26th of May

Opening Ceremony - Bastionul Theresia

27th of May






Retro US Student's night at Retro Garden (on the riverside)

Promotion




1. Email Marketing

Sending date	Subject line	Open Rate (%) Above the industry Overall Average of 30.35% (source: constantcontact.com)	Subscribers
18.01.2022	Registrations are open!	43.50 ↑	2,945
21.01.2022	Be part of our program	45.80 ↑	2,943
21.02.2022	Why attend?	38.37 ↑	2,940
04.03.2022	Searching for a worldwide opportunity?	35.69 ↑	2,939
11.03.2022	Meet our 121 Invited Speakers	34.68 ↑	2,936
12.03.2022	Discover your Preliminary Program!	34.17 ↑	2,935
14.03.2022	Don't miss the chance to register with an early bird fee!	32.07 ↑	2,931
15.03.2022	Kind reminder: Last hours of early bird fees!	30.63 ↑	2,931
16.03.2022	Great news!	34.06 ↑	2,929
30.03.2022	Last chance to become part of our program	41.12 ↑	2,924
04.04.2022	Watch Prof. Cristina Chammas warm welcome letter	37.30 ↑	2,922
14.04.2022	Last chance of registering benefiting from the EARLY BIRDS FEES	32.32 ↑	2,915
27.04.2022	19 European CME credits	40.35 ↑	3,285
05.05.2022	Prof. Cristina Chammas	41.19 ↑	3,282
10.05.2022	Last hours of REGULAR FEES	34.44 ↑	3,279
16.05.2022	Scientific Program Student Ultrasound Congress	39.58 ↑	3,487
22.05.2022	Watch Prof. Ioan Sporea's thoughtful welcome letter	42.49 ↑	3,522



2. Social media

Posting date	Graphic asset	Topic of discussion
19.01.2022		<ul style="list-style-type: none"> - Official opening of registrations - Sharing the welcome letter
21.01.2022		Sharing information regarding the abstract submission and its guidelines
04.03.2022		Sharing information regarding the WFUMB EFSUMB STUC: Student Ultrasound Congress
07.03.2022		<ul style="list-style-type: none"> - Official promotional video release for WFUMB Congress - The Facebook Ad with a budget of 100RON generated 3.279 clicks on the registration form
08.03.2022		<ul style="list-style-type: none"> - Paid promotion for the WFUMB EFSUMB STUC: Student Ultrasound Congress - The Facebook Ad with a budget of 800RON generated 12.535 clicks on the registration form

2. Social media

Posting date	Graphic asset	Topic of discussion
08.03.2022		<ul style="list-style-type: none"> - Paid promotion for the WFUMB Congress - The Facebook Ad with a budget of 800RON generated 9.364 clicks on the registration form
04.04.2022		Sharing the warm video welcoming letter recorded by Prof. Dr. Cristina Chammas
17.04.2022		Promoting the event through its complexity given by the number of hours of the scientific program, scientific sessions, invited speakers, and countries.
27.04.2022		Notifying the audience about the number of CME credits
03.05.2022		Sharing the second video welcoming letter recorded by Prof. Dr. Cristina Chammas

2. Social media

Posting date	Graphic asset	Topic of discussion
22.05.2022		Releasing the welcoming letter recorded by Prof. Dr. Ioan Sporea
		Releasing the welcoming letter recorded by Prof. Dr. Alina Popescu, Prof. Dr. Christian Jenssen and Prof. Dr. Seung H. Kim

3. Public relations

Media partners



- posters
- flyers
- banners

