ROMANIAN ACADEMY

"CORIOLAN DRĂGULESCU" INSTITUTE OF CHEMISTRY

24 Mihai Viteazu Av., RO-300223 Timisoara, ROMANIA

phone: +40 256-491818; fax: +40 256-491824

online event

webpage: www.ntcr-2021.ro

2021

DAY 1

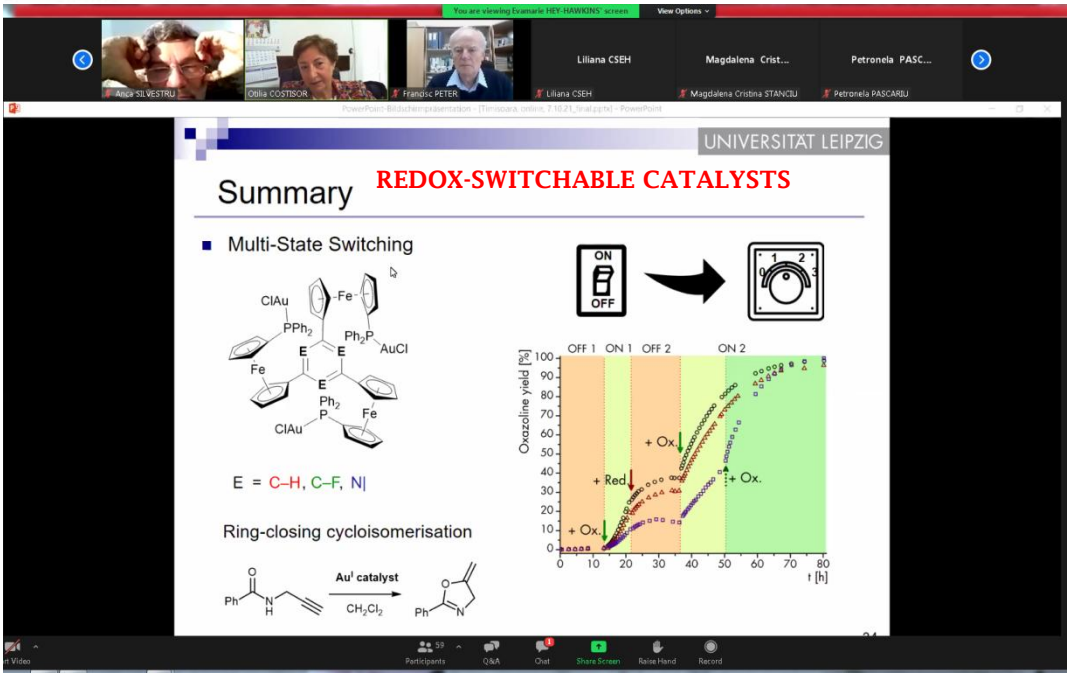
CHAIRMAN – Session 1

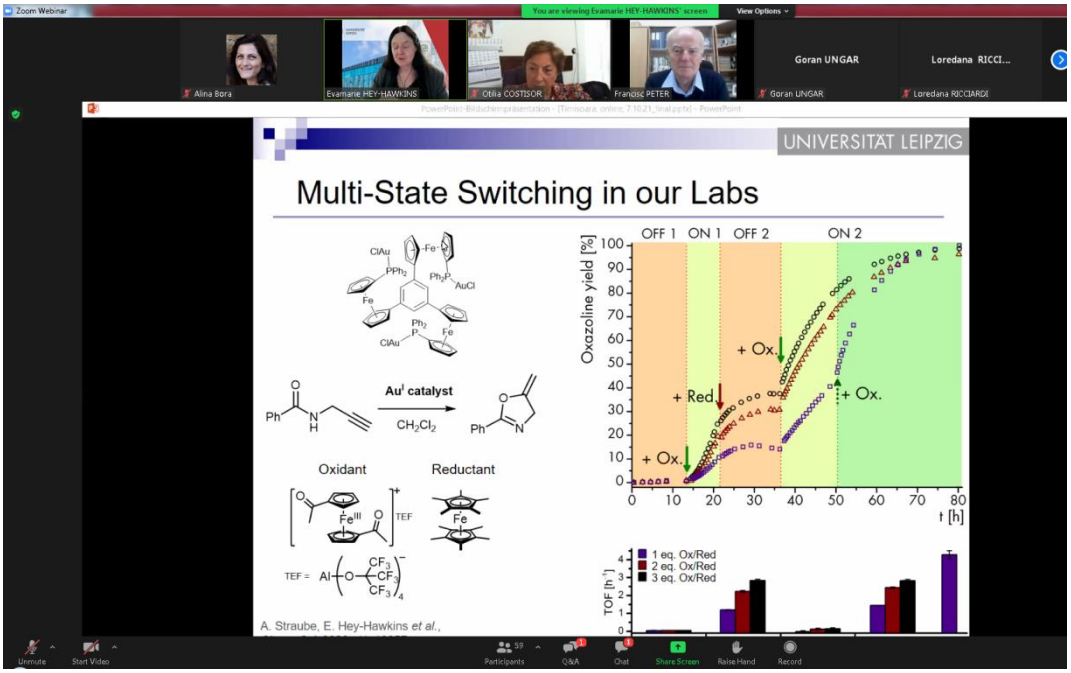
Dr. Otilia COSTISOR

Director of "Coriolan Dragulescu" Institute of Chemistry, Timisoara

Invited Speakers

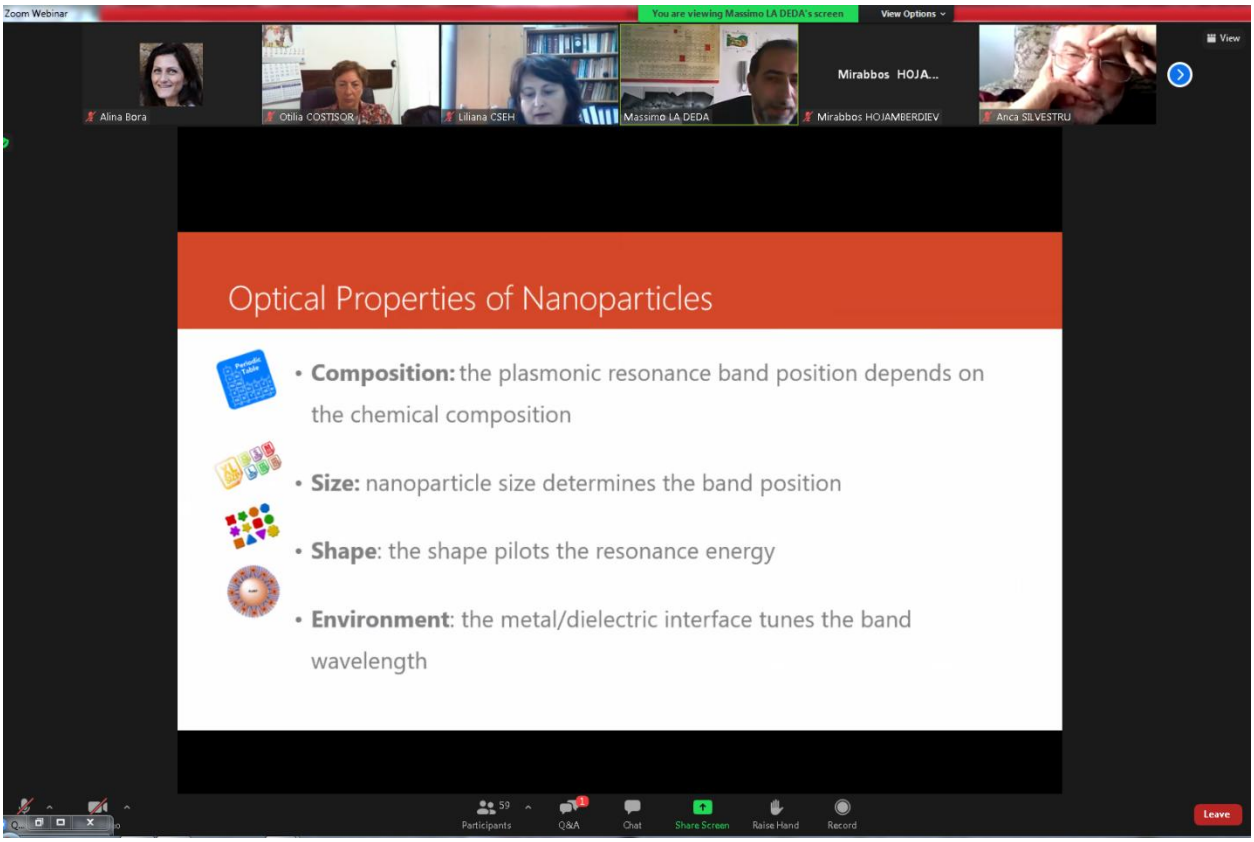
Prof.Dr.EVA MARIE HEY-HAWKINS



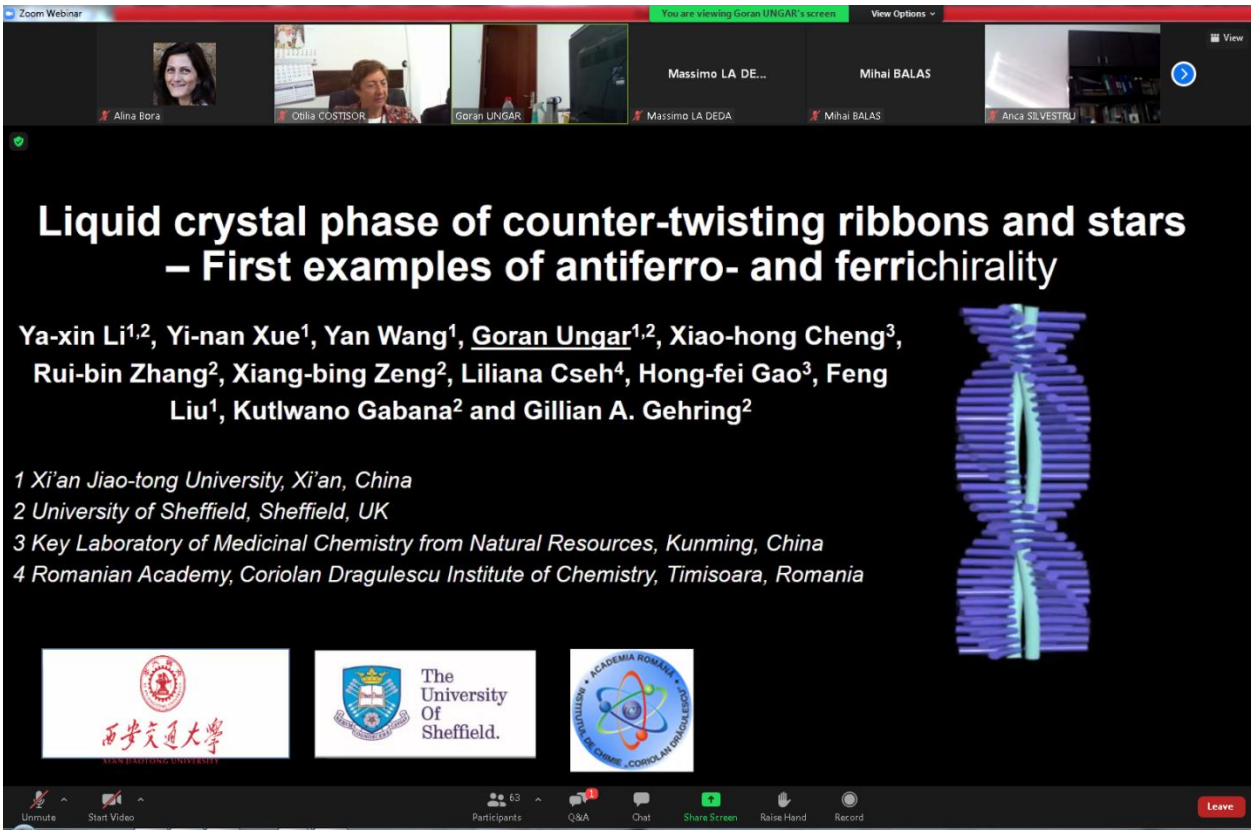


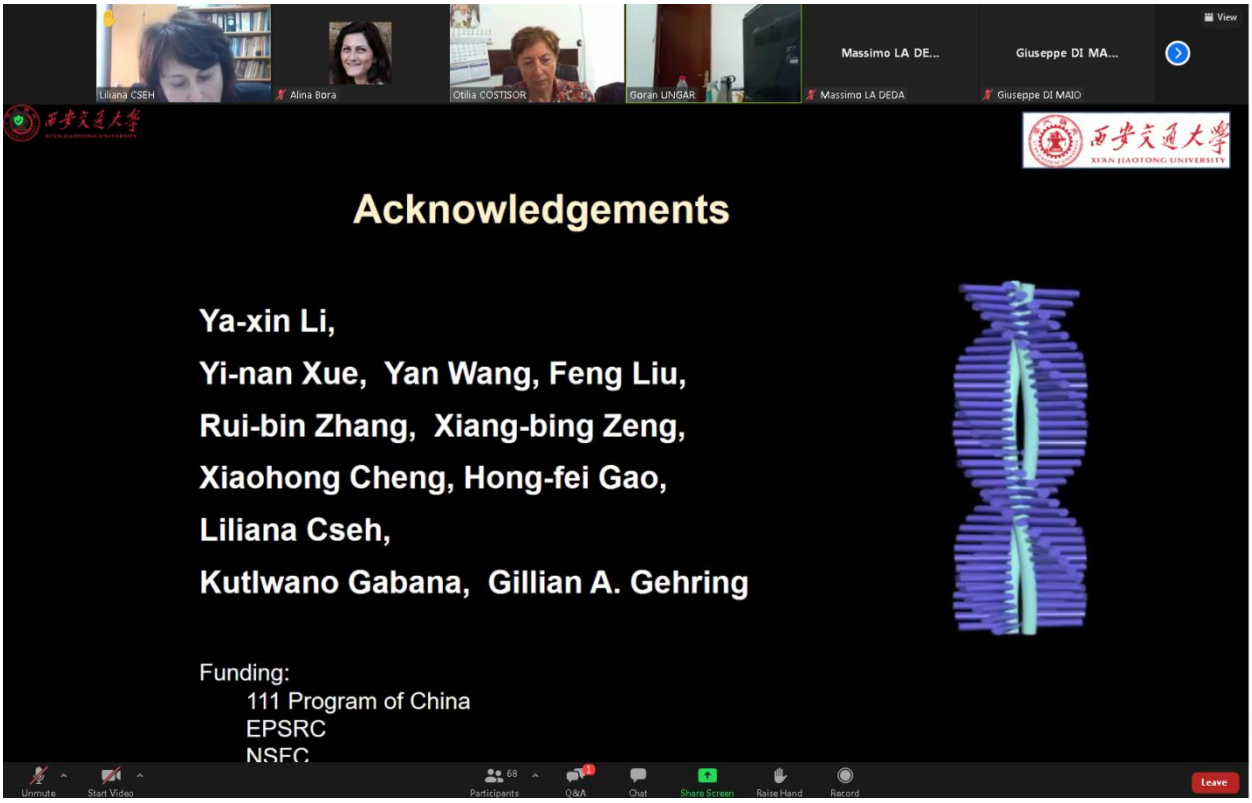
MASSIMO LA DEDA

LUMINESCENT SELF-ASSEMBLED MONOLAYER ON GOLD NANOPARTICLES: TUNING OF EMISSION ACCORDING TO THE SURFACE CURVATURE

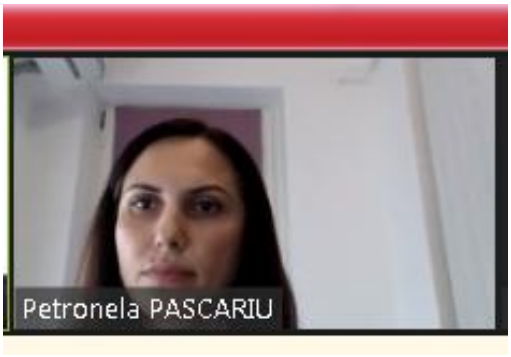


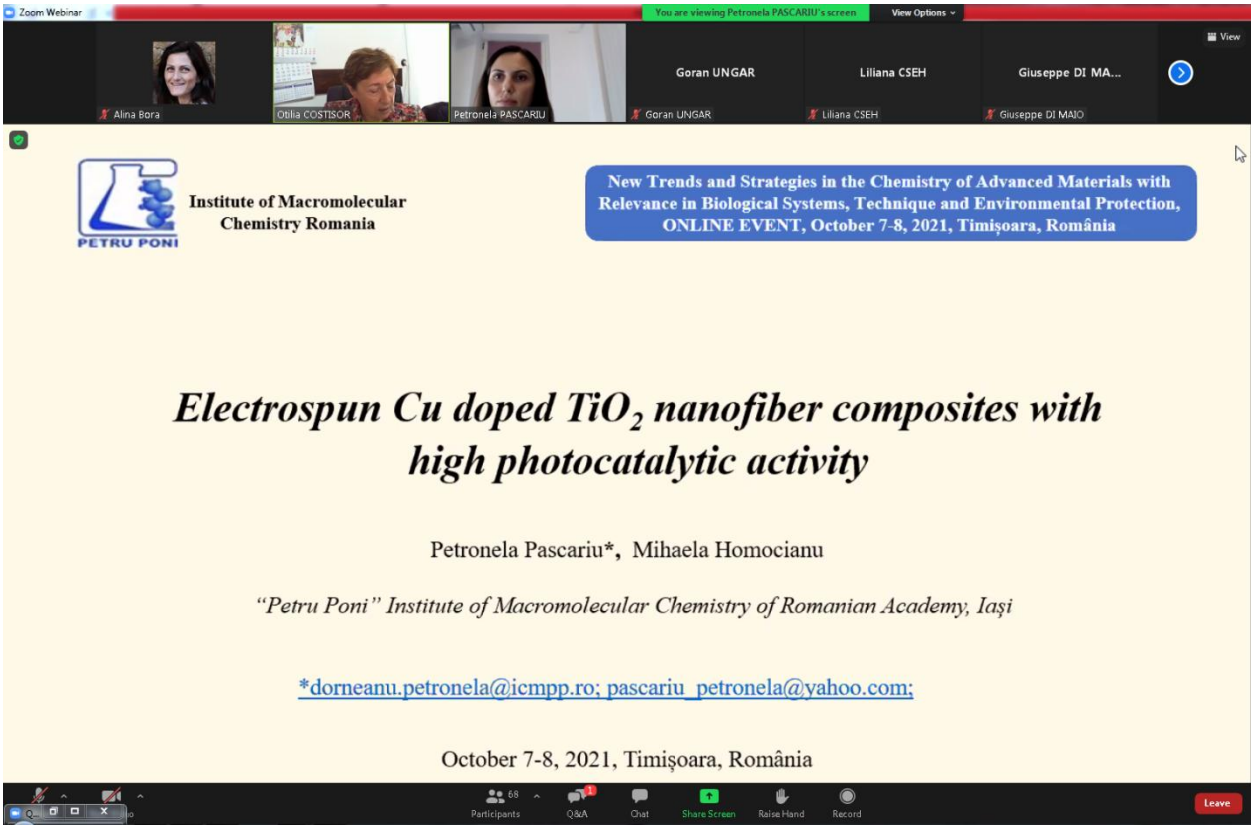
Prof.Dr.GORAN UNGAR





Dr. PETRONELA PASCARIU

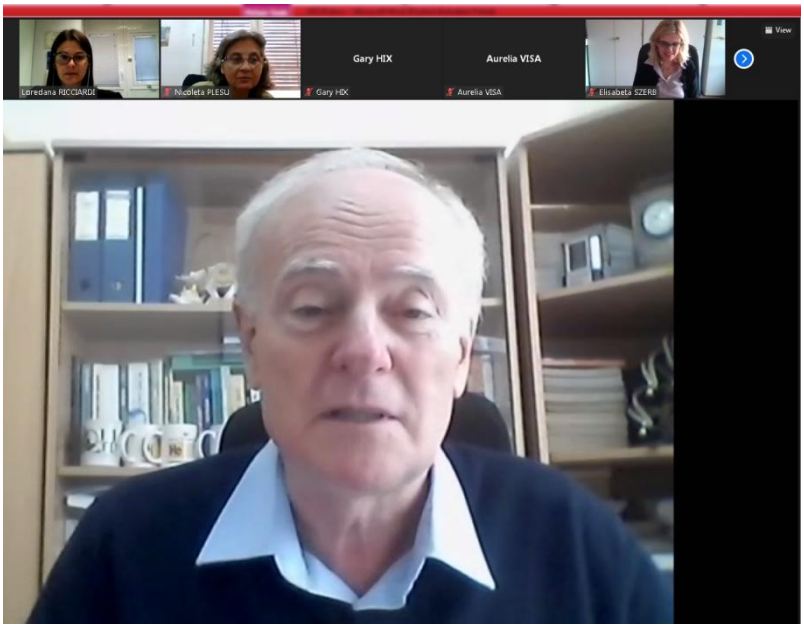




CHAIRMAN – Sesion 2

Prof.Dr. Francisc PETER

Polytechnica University of Timisoara

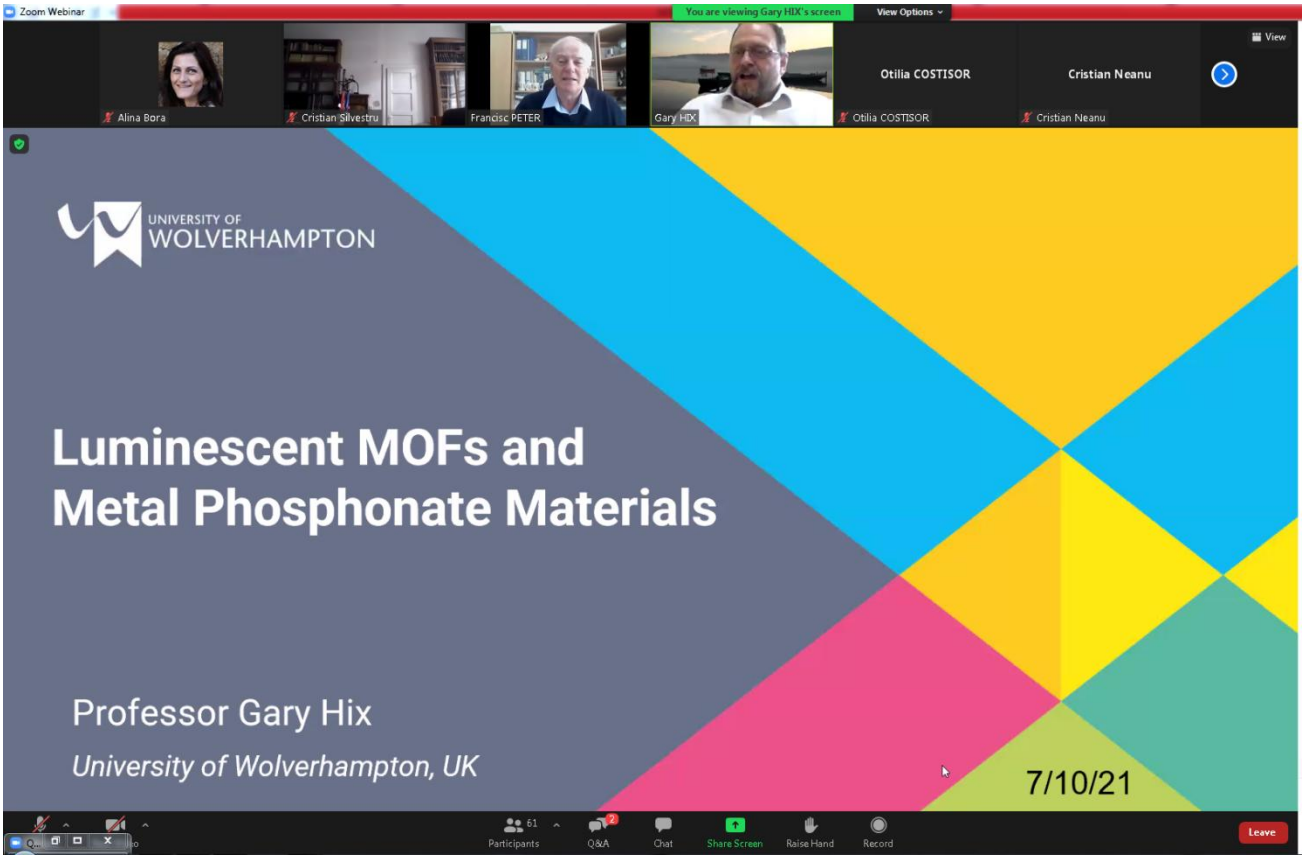


IONEL SARACHIE

(ABL&E – JASCO Romania SRL)

Acad. CRISTIAN SILVESTRU

Prof.dr. GARY HIX



Outline

- What are MOFs/Metal Phosphonates?
- MOFs / Metal Phosphonates
  - Phosphonate / MOF structure
  - Transition metal phosphonates
  - Lanthanide phosphonates
  - MOF/NP materials
- Conclusions

Dr. LOREDANA RICCIARDI

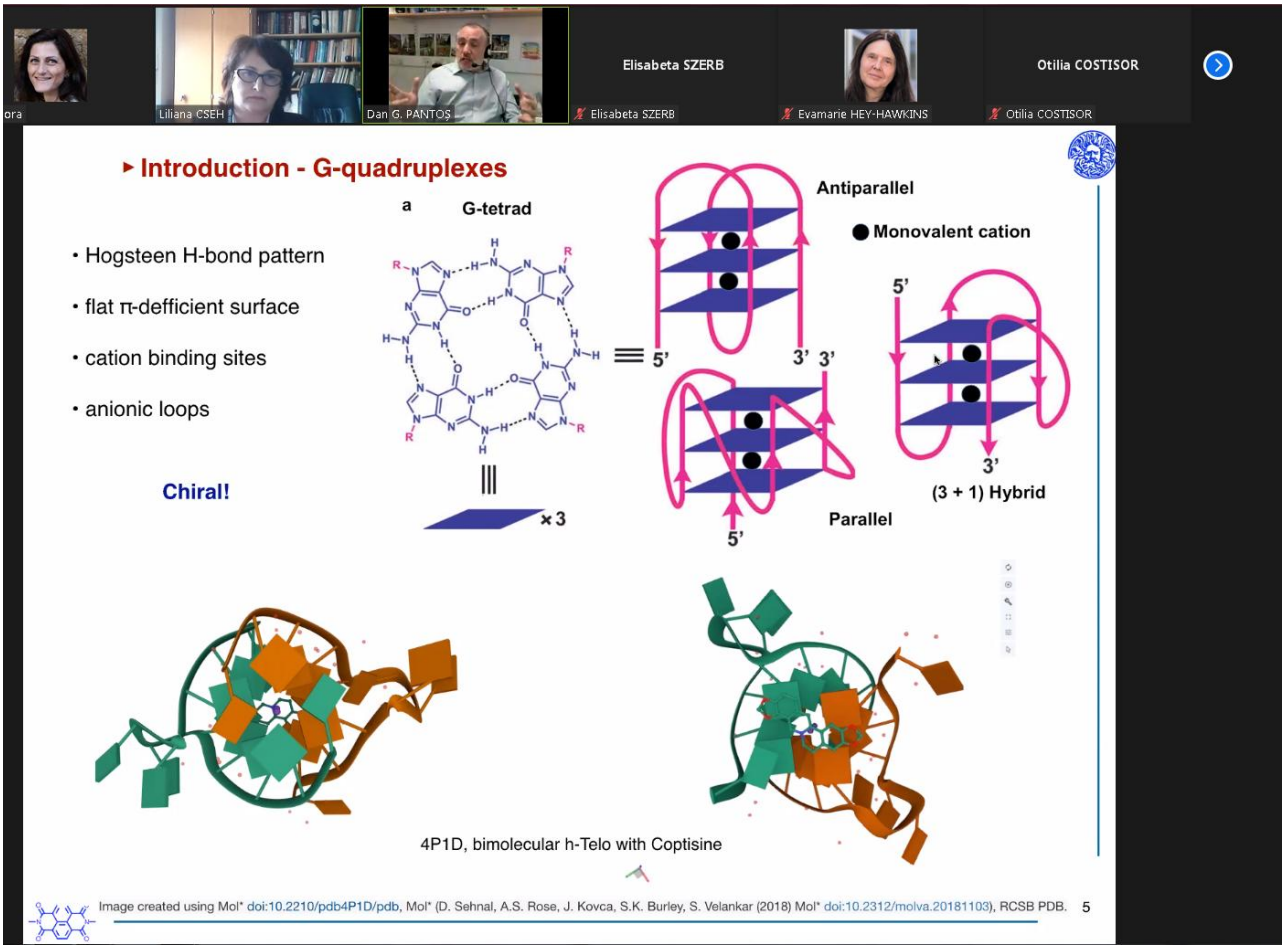
Dr.ROSARIOM.P. COLODERO

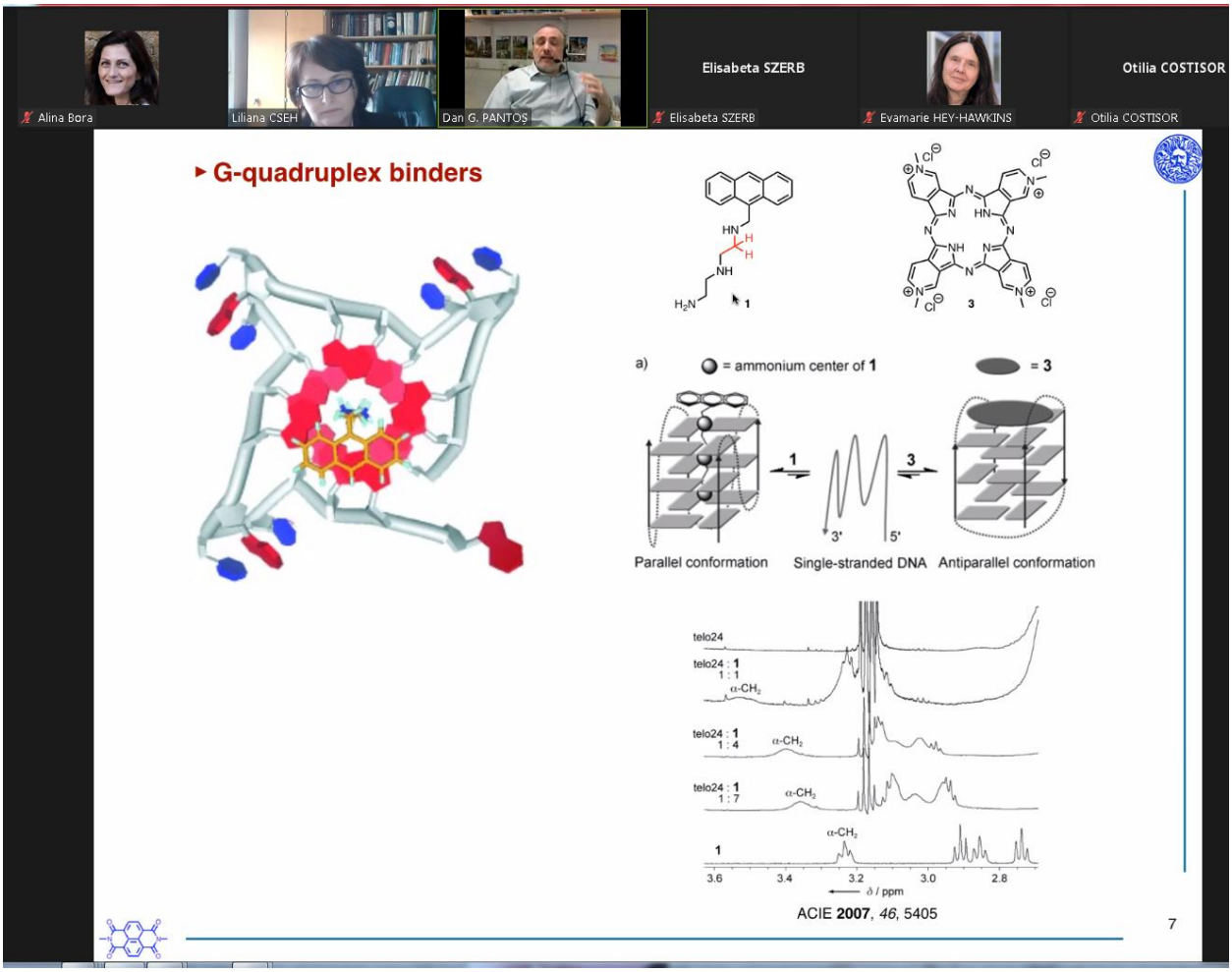
CHAIRMAN - Sesion 3

Dr. Liliana CSEH
"Coriolan Dragulescu" Institute of Chemistry, Timisoara

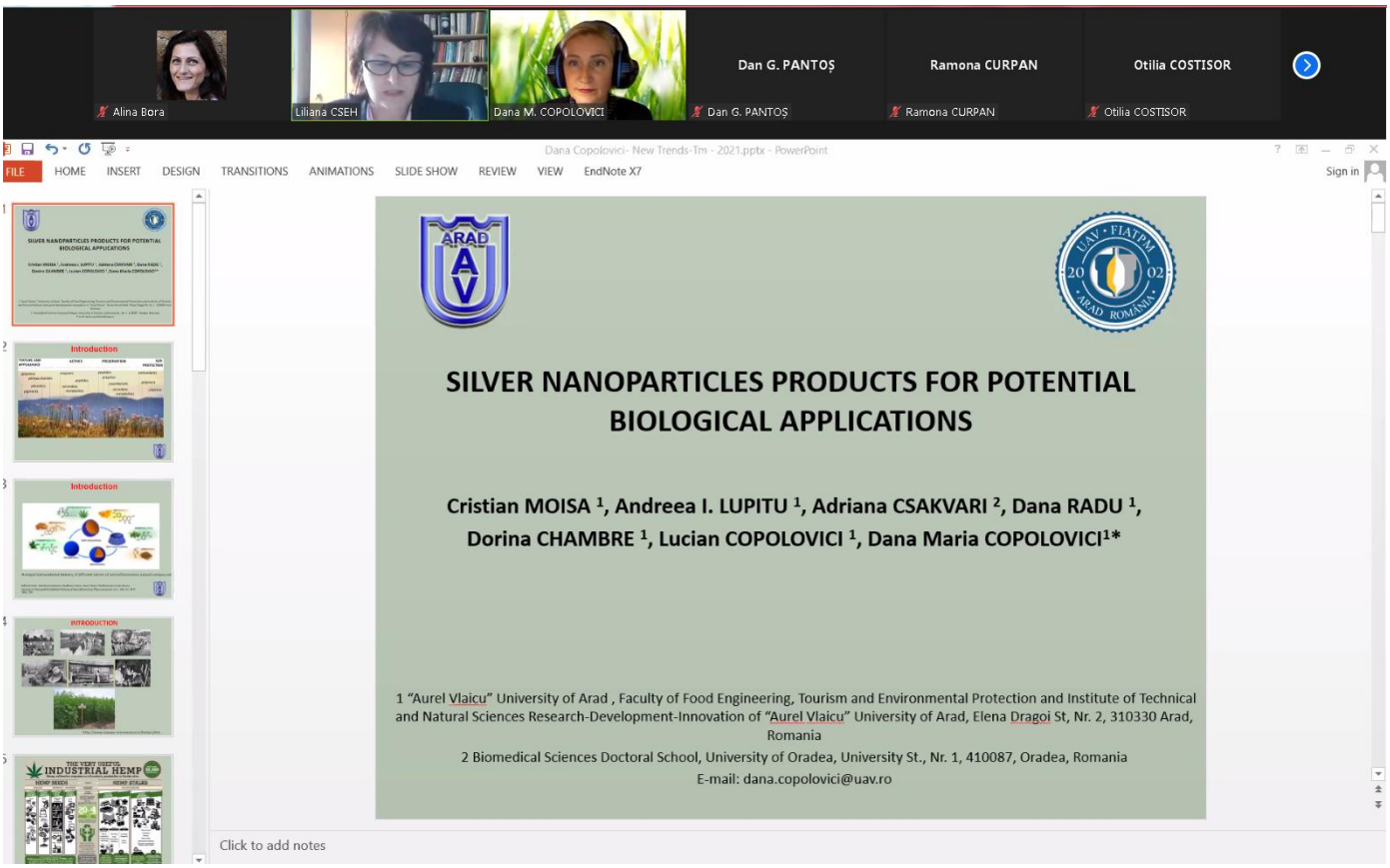
Dr. Dan G. PANTOS

SMALL MOLECULE G-QUADRUPLEX BINDERS: A SUPRAMOLECULAR PROBLEM AND SOLUTION?




Alina Bora
Liliana CSEH
Dan G. PANTOŞ
Elisabeta SZERB
Elisabeta SZERB
Evamarie HEY-HAWKINS
Otilia COSTISOR
Otilia COSTISOR
▸ G-quadruplex binders
1
3
a)
= ammonium center of 1
= 3
1
3
3'
5'
Parallel conformation
Single-stranded DNA
Antiparallel conformation
telo24
telo24 : 1 1 : 1
telo24 : 1 1 : 4
telo24 : 1 1 : 7
α-CH2
1
3.6
3.4
3.2
3.0
2.8
δ / ppm
ACIE 2007, 46, 5405
7

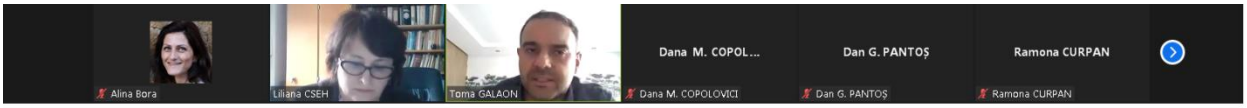
Prof. Dana COPOLOVICI

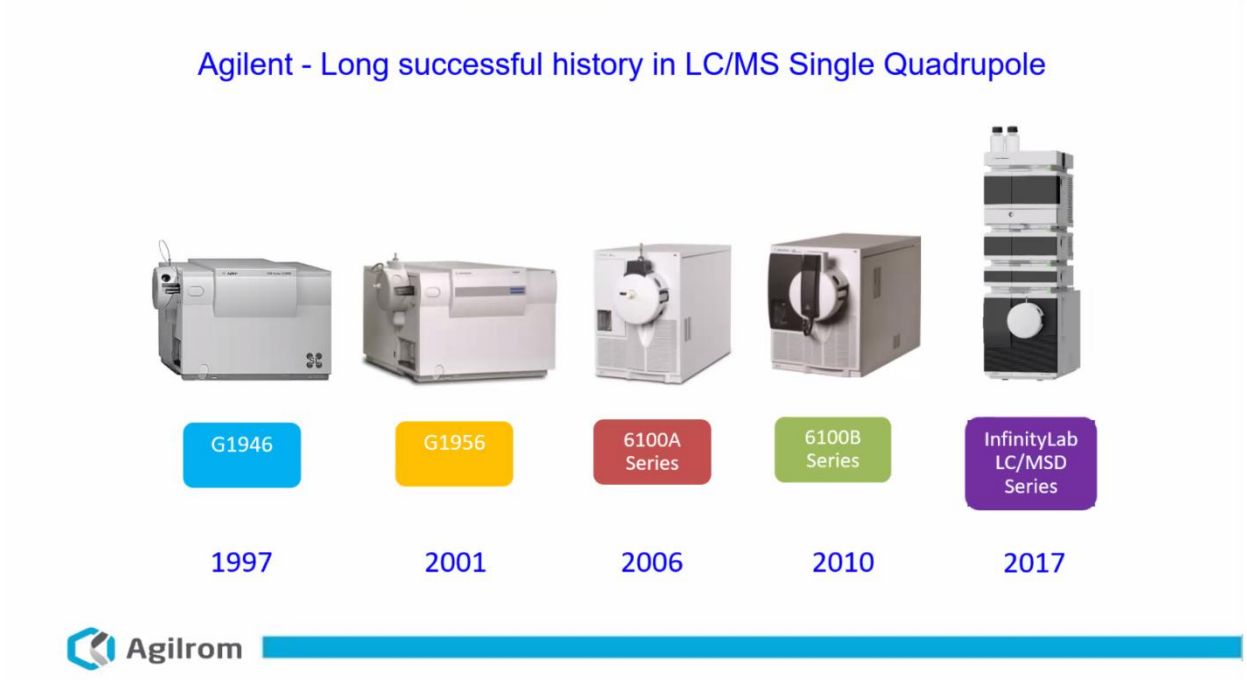


TOMA GALON

(AGILROM SCIENTIFIC SRL)

AN EASY TO USE, COST-EFFECTIVE LC/MSD SOLUTION FOR CHROMATOGRAPHERS



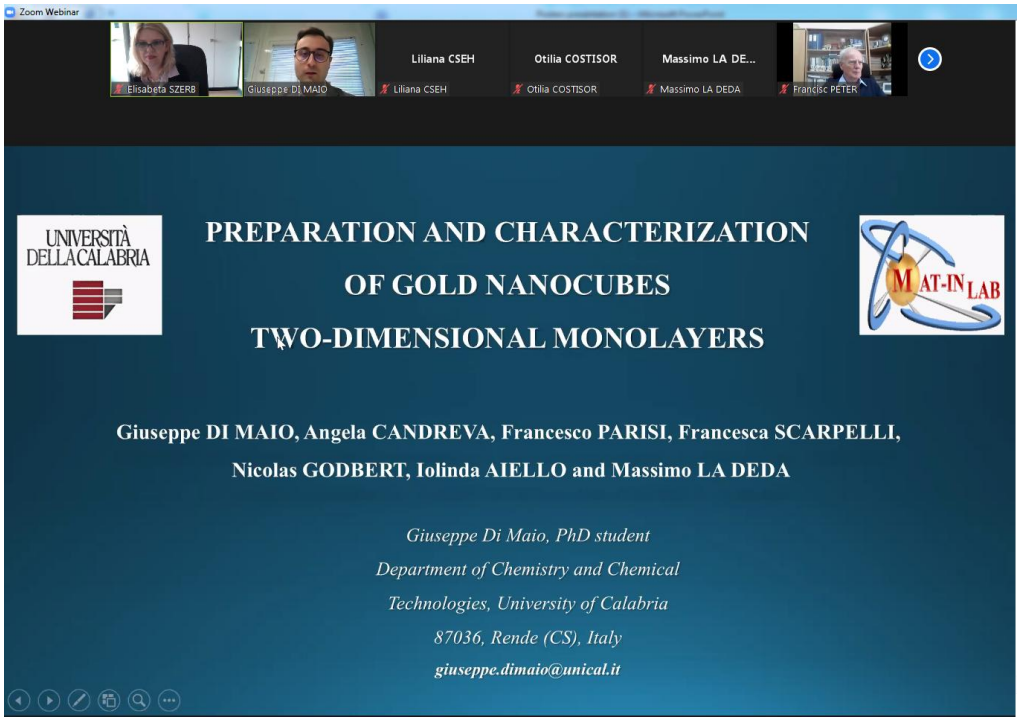


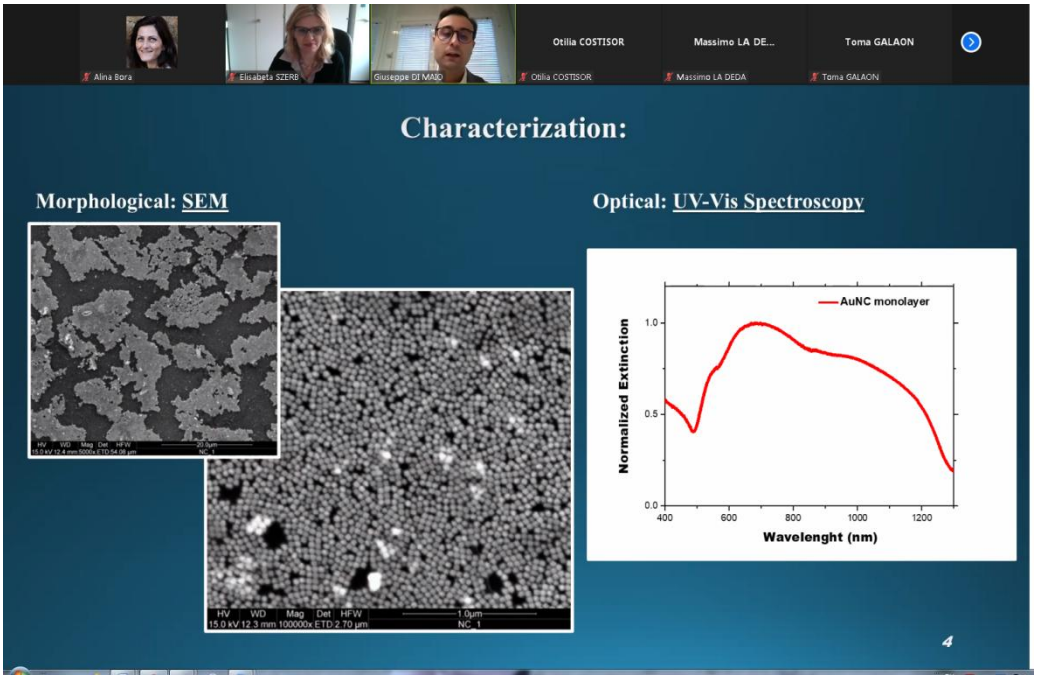
CHAIRMAN - Sesion 4

Dr.Elisabeta SZERB

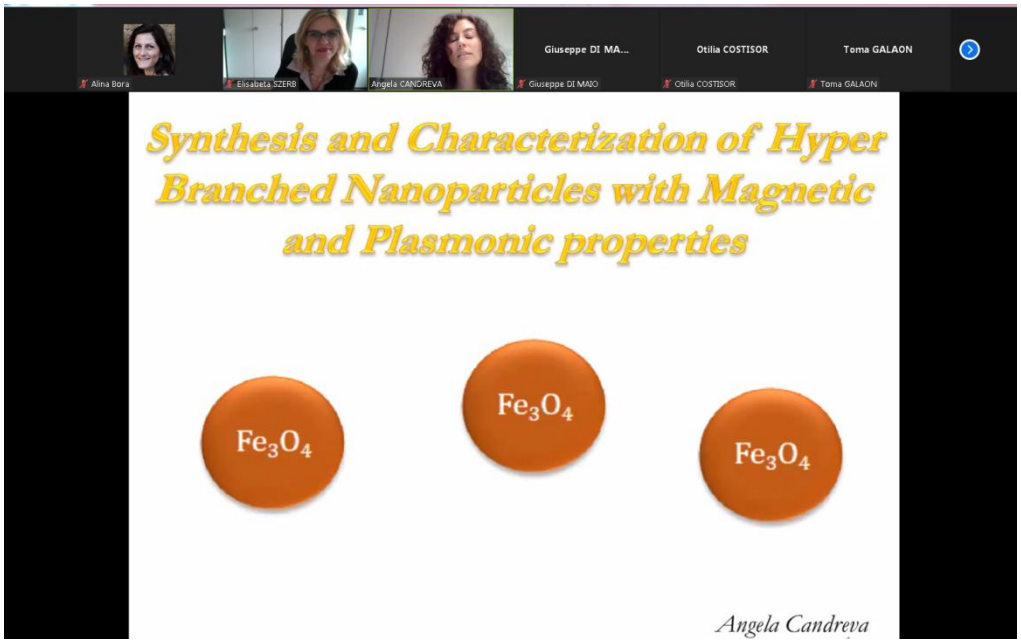
“Coriolan Dragulescu” Institute of Chemistry, Timisoara

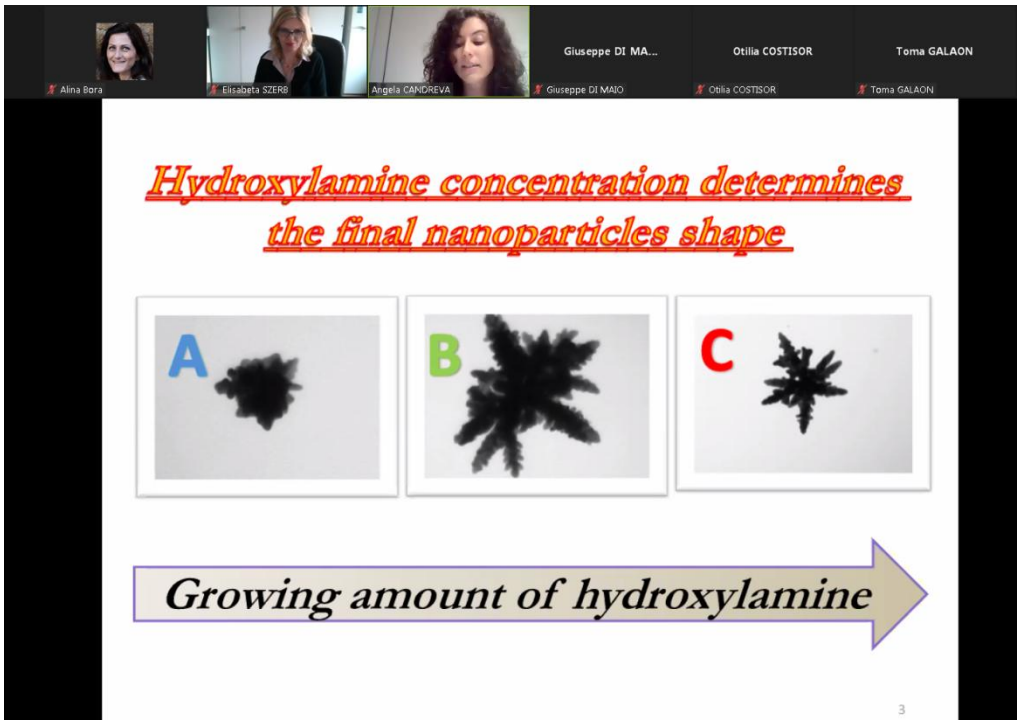
GIUSEPPE DI MAIO



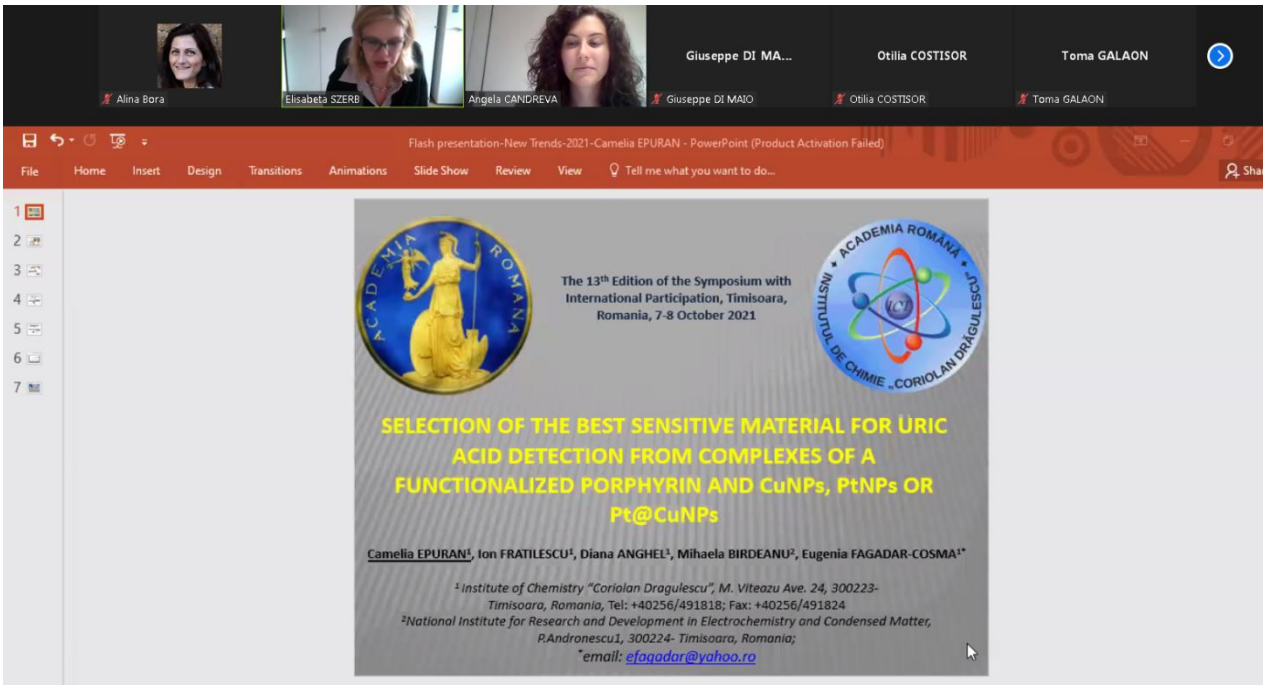


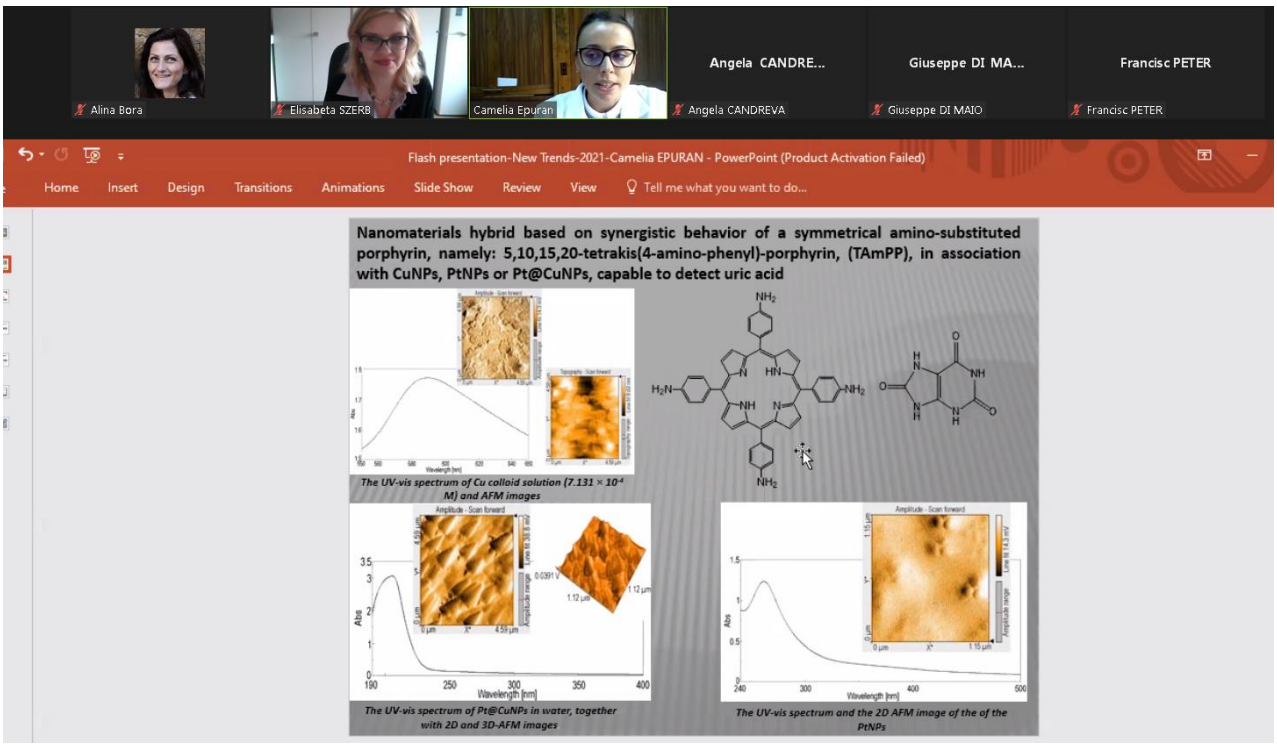
ANGELA CANDREVA





Drd. CAMELIA EPURAN



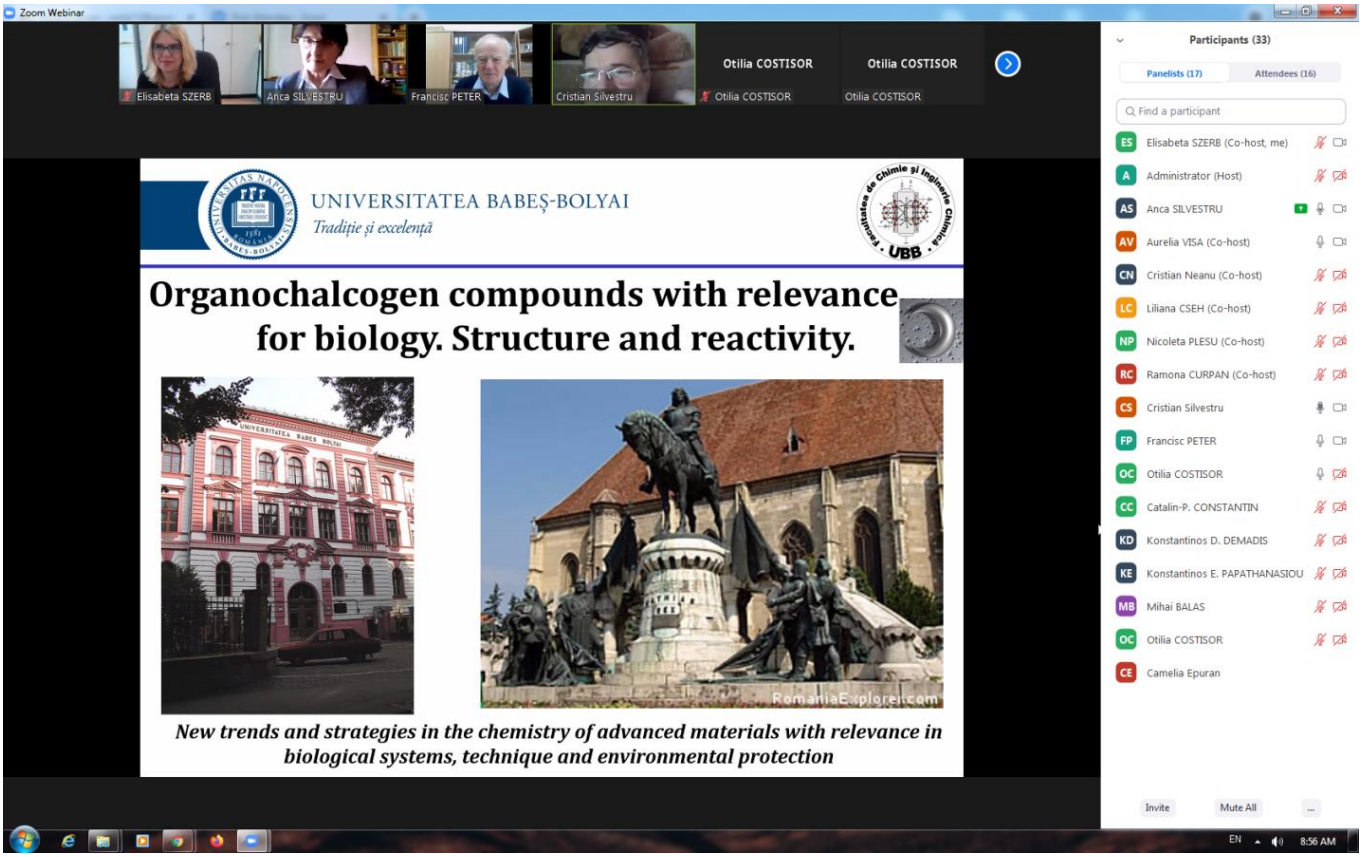


DAY 2

CHAIRMAN – Sesion 1

Dr. Aurelia PASCARIU
"Coriolan Dragulescu" Institute of Chemistry, Timisoara

Prof.Dr. Anca SILVESTRU

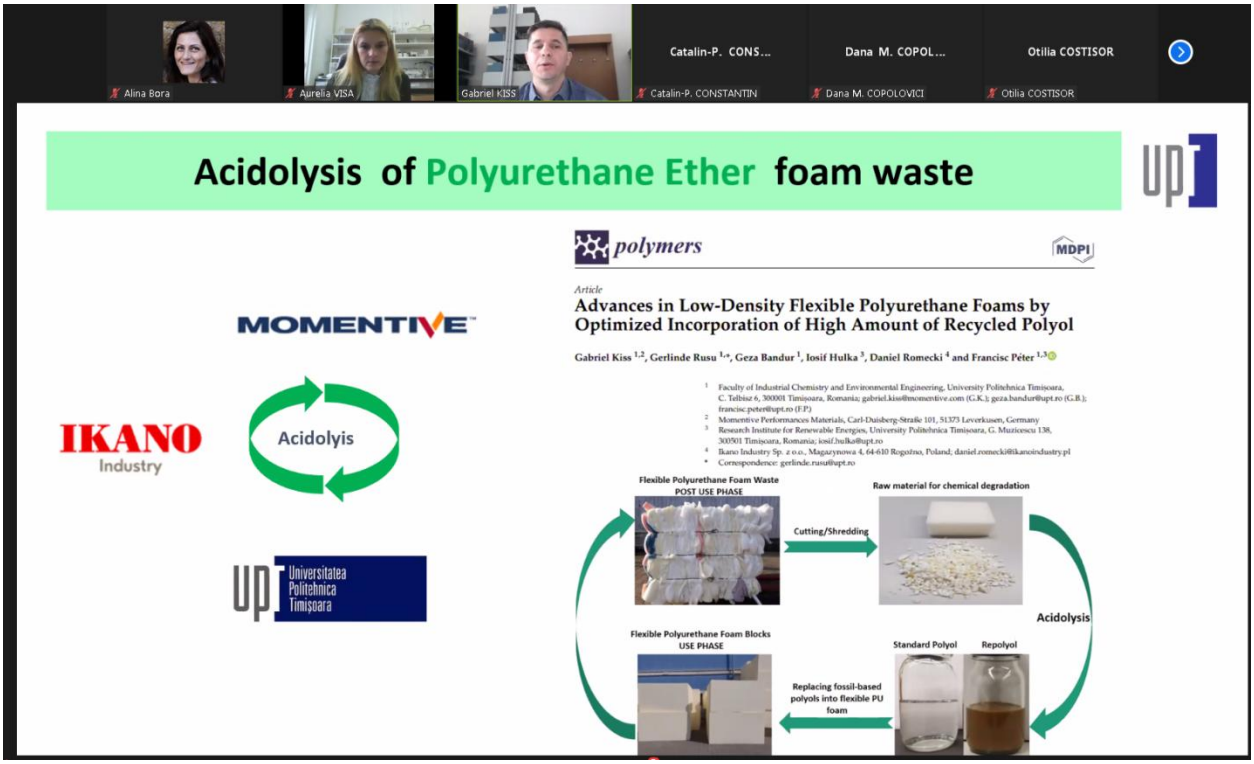


Prof. Kostas D. DEMADIS

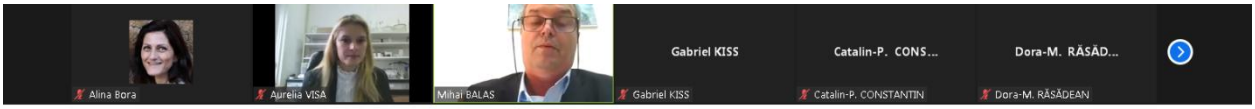
Dr. Catalin P. CONSTANTIN

Dr. Gabriel KISS

Achievements in polyurethane foam degradation and recycling, addressing current environmental challenges



Dr. Mihai BALAS



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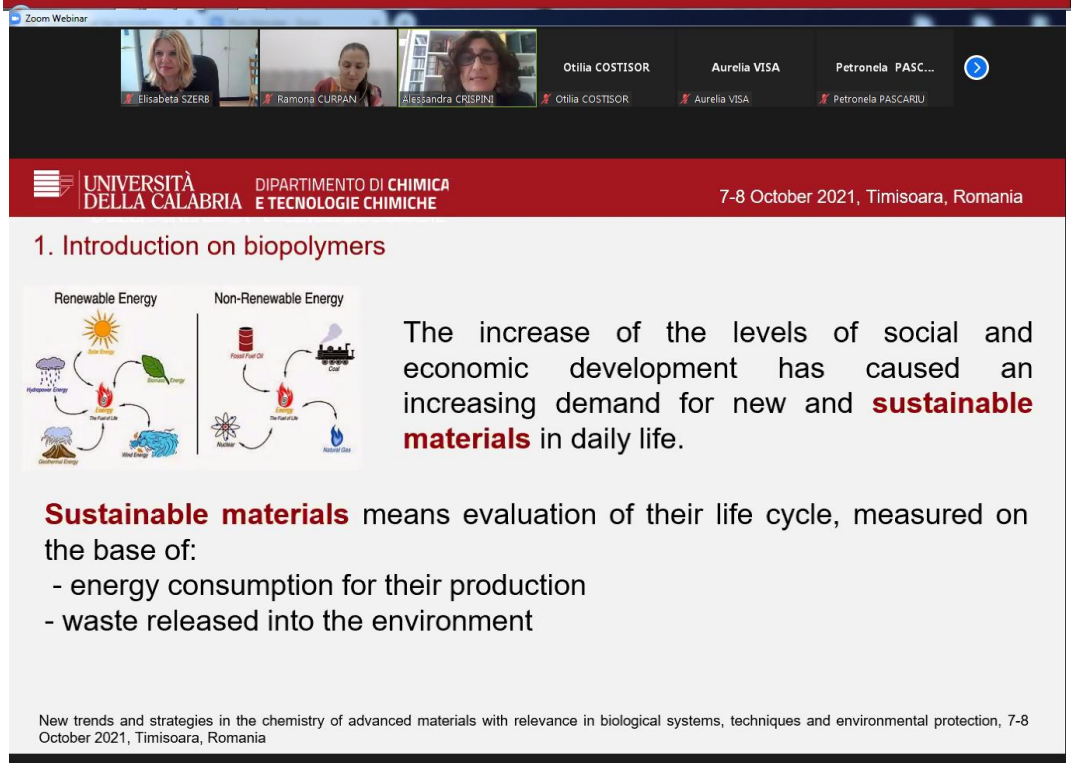
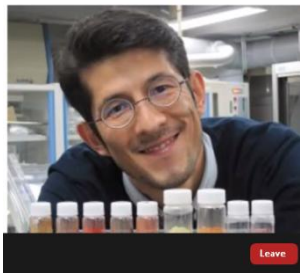
Dr. Alessandra CRISPINI

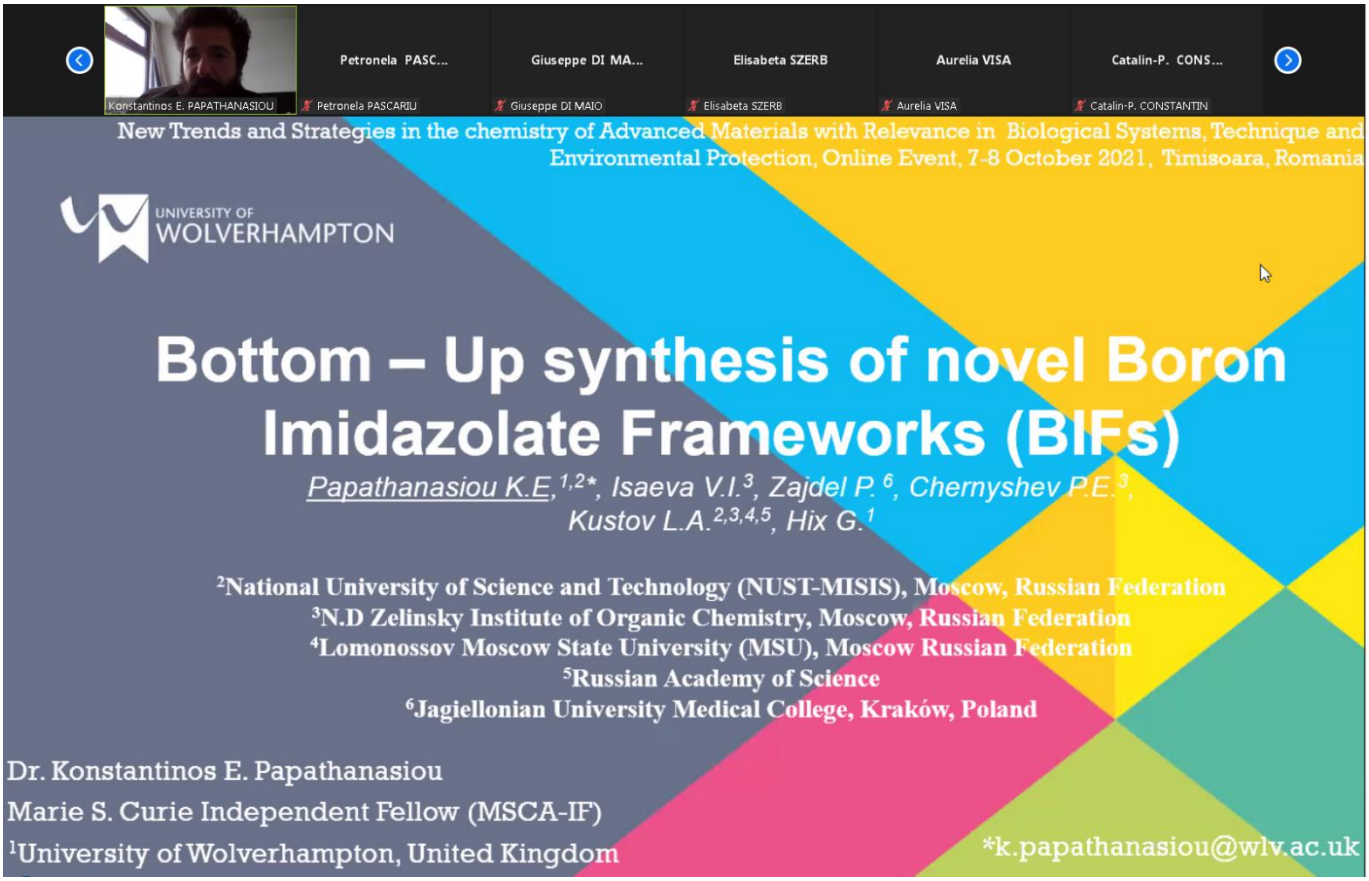


Dr. Mirabbos HOJAMBERDEV



Dr. Snezana USKOKOVIC-MARKOVIC

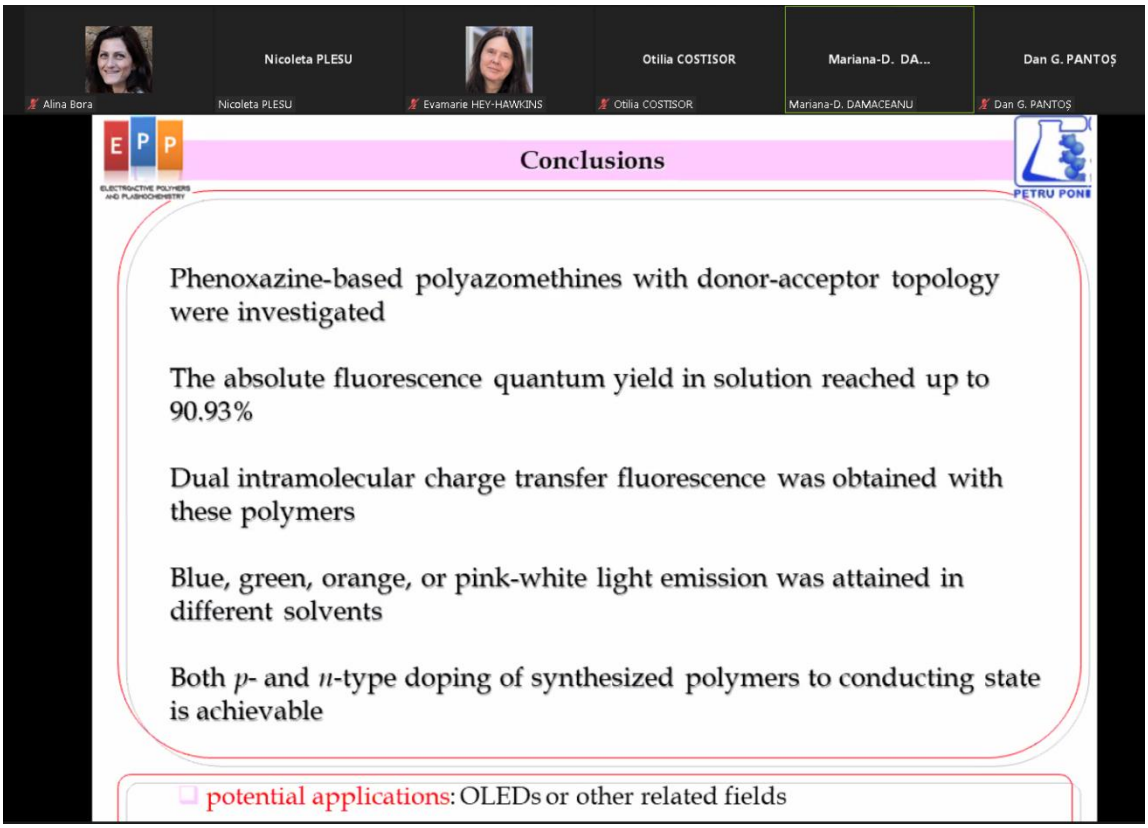
Dr. Konstantinos E. PAPATHANASIOU



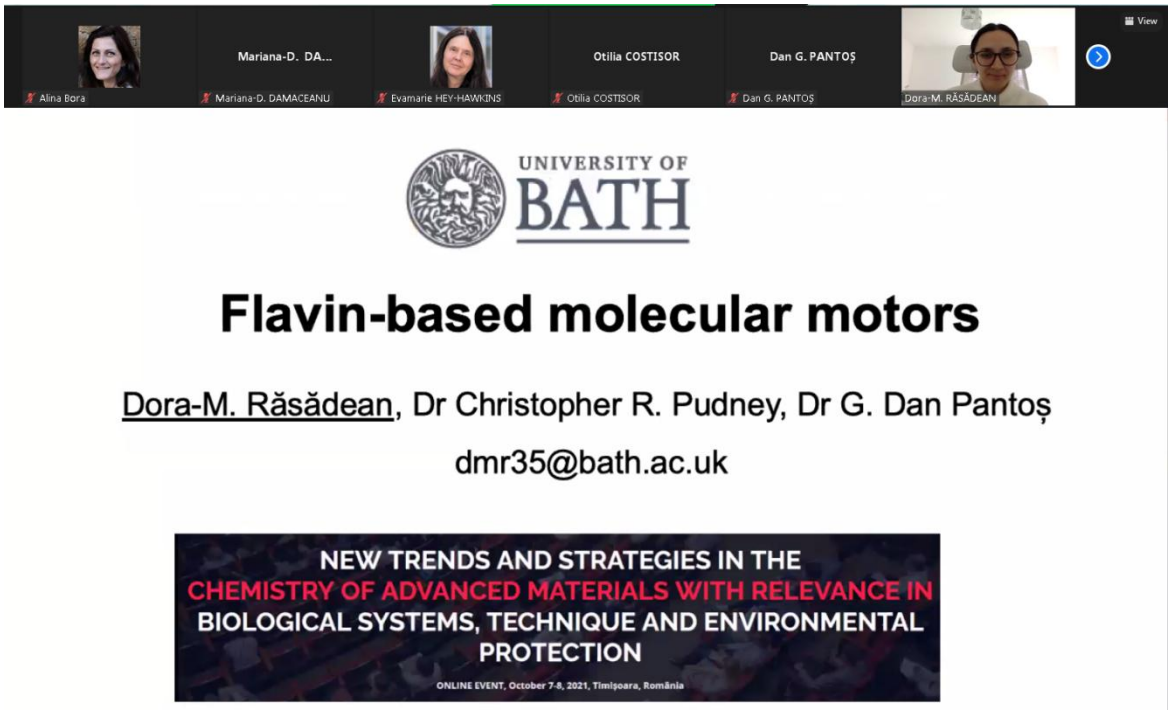
CHAIRMAN – Sesion 3

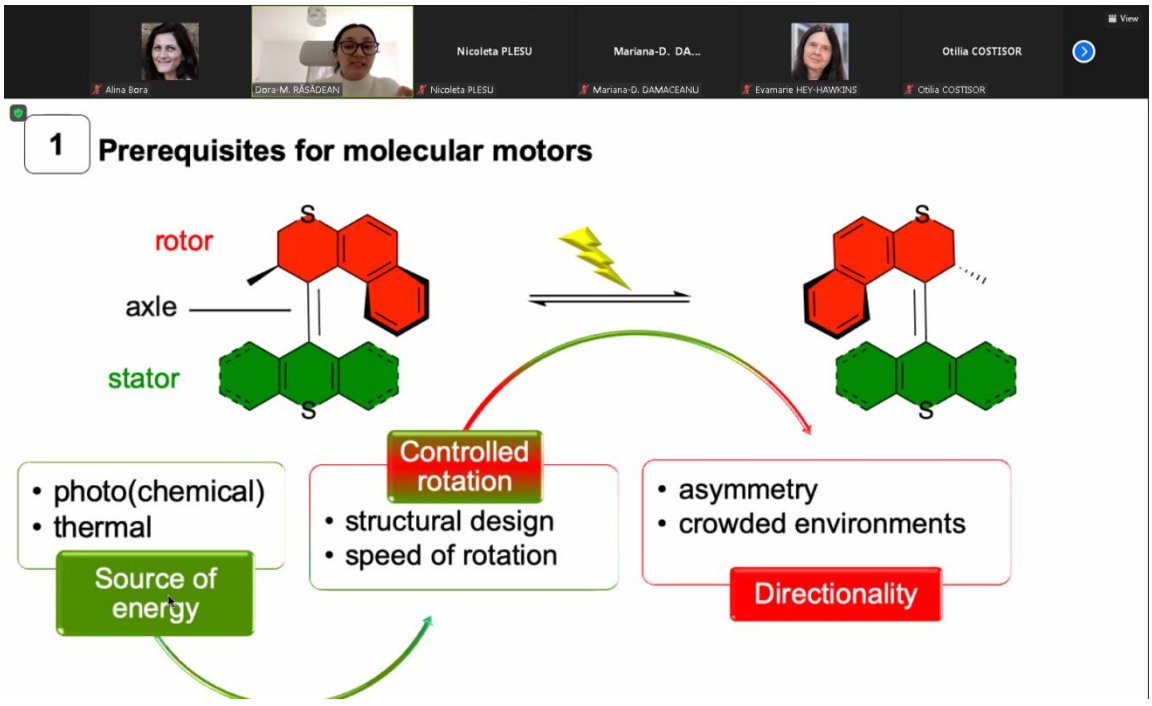
Dr. Nicoleta PLESU
"Coriolan Dragulescu" Institute of Chemistry, Timisoara

Dr. Mariana D. DAMACEANU



Drd. Dora M. RASADEAN

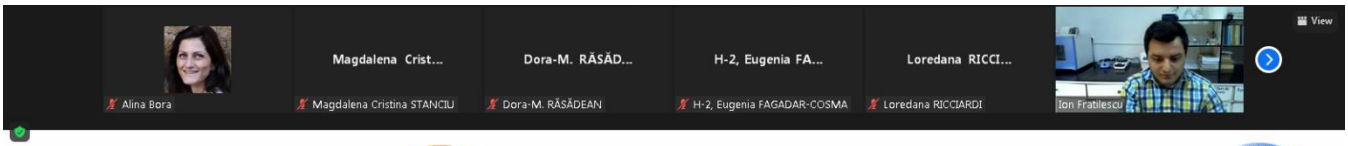




DEXTRAN-BASED ANTIMICROBIAL POLYMERS

Magdalena Cristina STANCIU, Marieta NICHIFOR

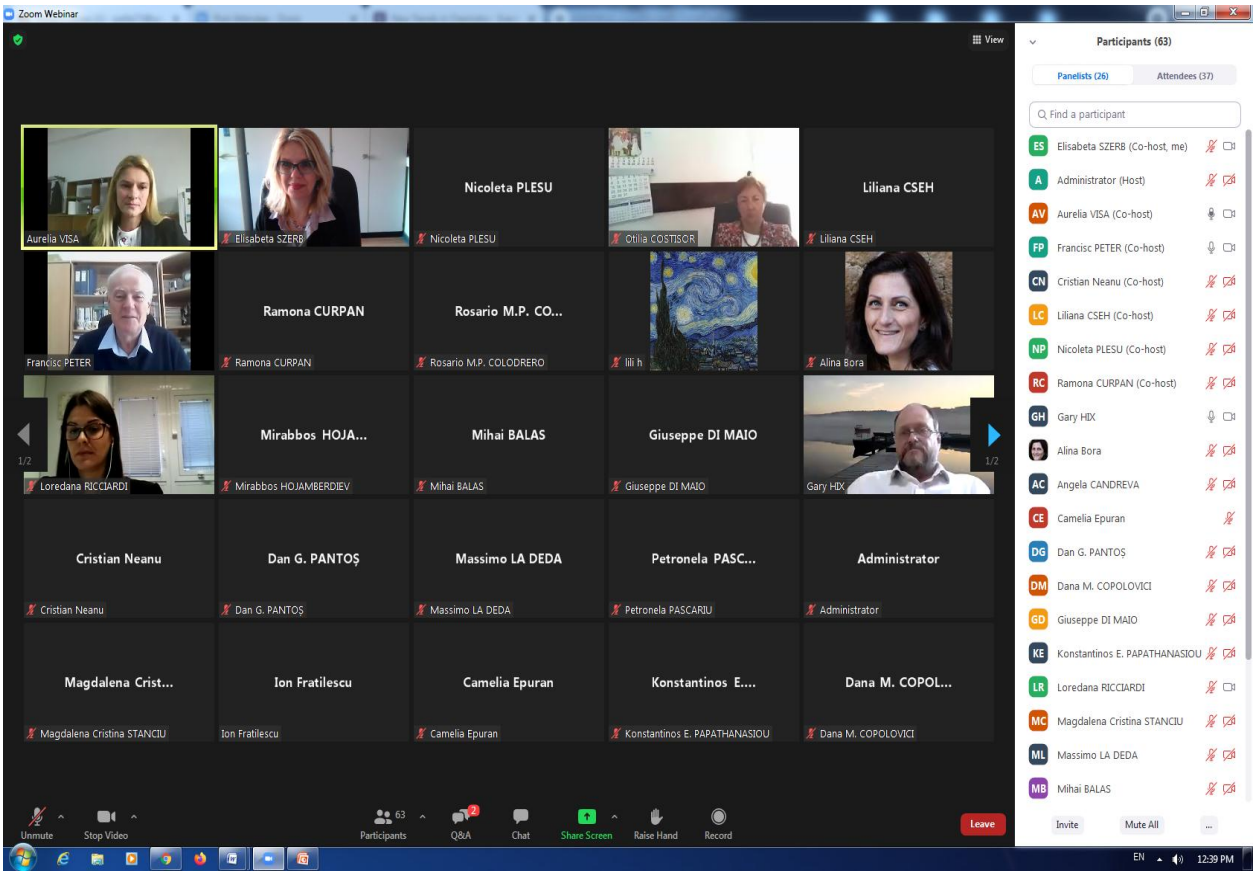
Drd. Ion FRATILESCU



HYBRID SILICA MATERIALS CONTAINING PLATINUM, IMPREGNATED WITH PORPHYRINS AND/OR PLATINUM NANOPARTICLES FOR FUCHSINE B COLOR REMOVAL FROM WASTEWATERS

Ion Fratilescu[1], Zoltán Dudás[2], Mihaela Birdeanu[3], Camelia Epuran[1], Diana Anghel[1], Ionela Fringu[1], Anca Lascu[1], Adél Len[4], Eugenia Fagadar-Cosma[1]

[1]Institute of Chemistry "Coriolan Dragulescu", Mihai Viteazu Ave. 24, 300223 Timisoara, Romania
[2]Neutron Spectroscopy Department, Centre for Energy Research, Konkoly-Thege Street 29-33, 1121 Budapest, Hungary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Otilia COSTISOR
Liliana CSEH
Francisc PETER
Ramona CURPAN
Rosario M.P. CO...
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Alina Bora
Loredana RICCIARDI
Mirabbos HOJA...
Mihai BALAS
Giuseppe DI MAIO
Gary HIX
Cristian Neanu
Dan G. PANTOŞ
Massimo LA DEDA
Petronela PASC...
Administrator
Magdalena Crist...
Ion Fratilescu
Camelia Epuran
Konstantinos E....
Dana M. COPOL...
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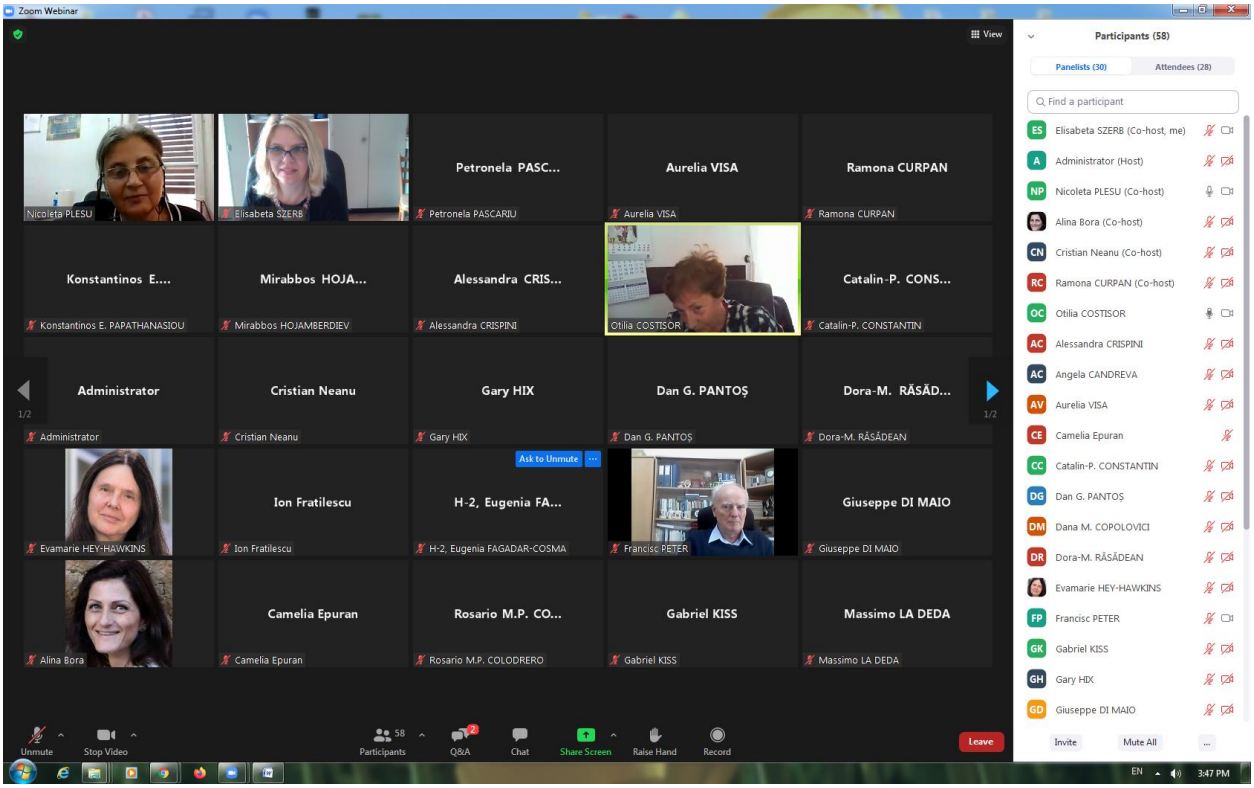
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Gary HIX
Dan G. PANTOŞ
Dora-M. RĂSĂD...
Evamarie HEY-HAWKINS
Ion Fratilescu
H-2, Eugenia FA...
Francisc PETER
Giuseppe DI MAIO
Alina Bora
Camelia Epuran
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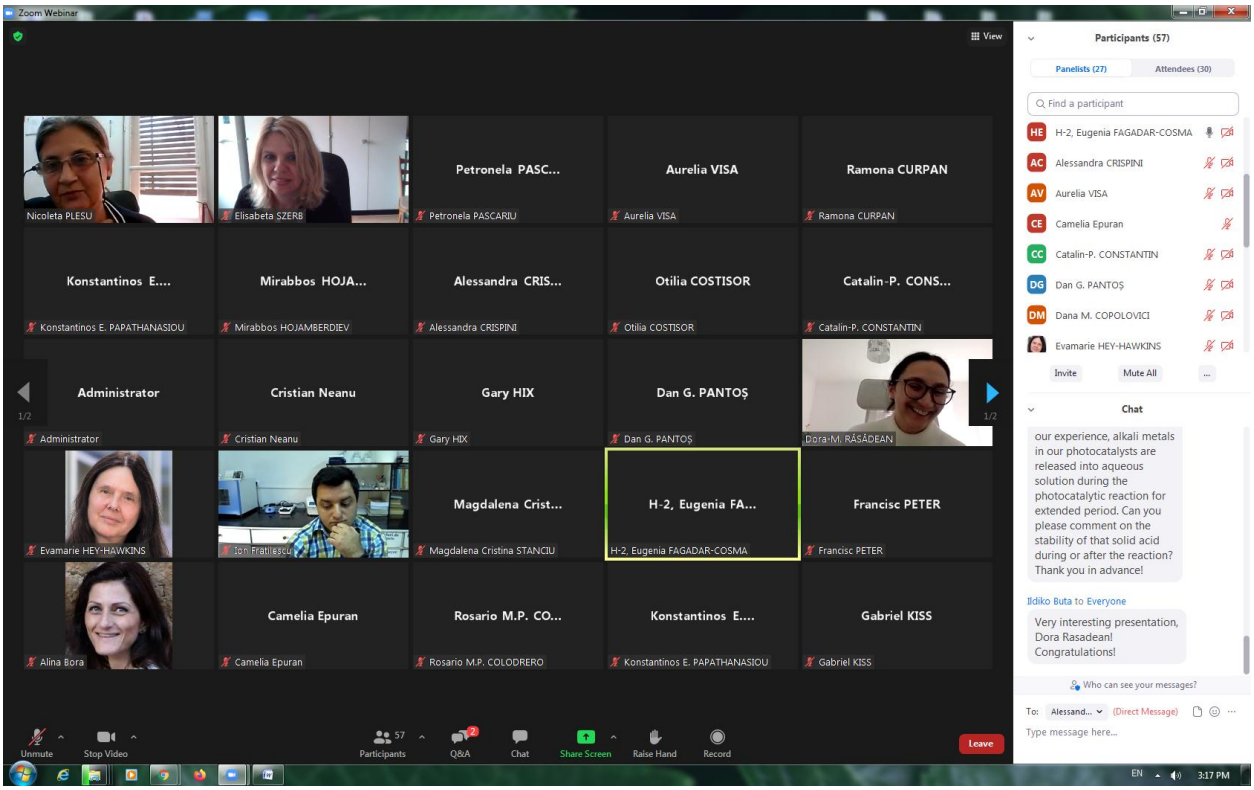
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Alessandra CRISPINI
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Catalin-P. CONSTANTIN
Dan G. PANTOŞ
Dana M. COPOLOVICI
Evamarie HEY-HAWKINS
Invite
Mute All
Chat
our experience, alkali metals in our photocatalysts are released into aqueous solution during the photocatalytic reaction for extended period. Can you please comment on the stability of that solid acid during or after the reaction? Thank you in advance!
Ildiko Buta to Everyone
Very interesting presentation, Dora Rasadean! Congratulations!
Who can see your messages?
Type message here...
Nicoleta PLESU
Elisabeta SZERB
Petronela PASC...
Aurelia VISA
Ramona CURPAN
Konstantinos E....
Mirabbos HOJA...
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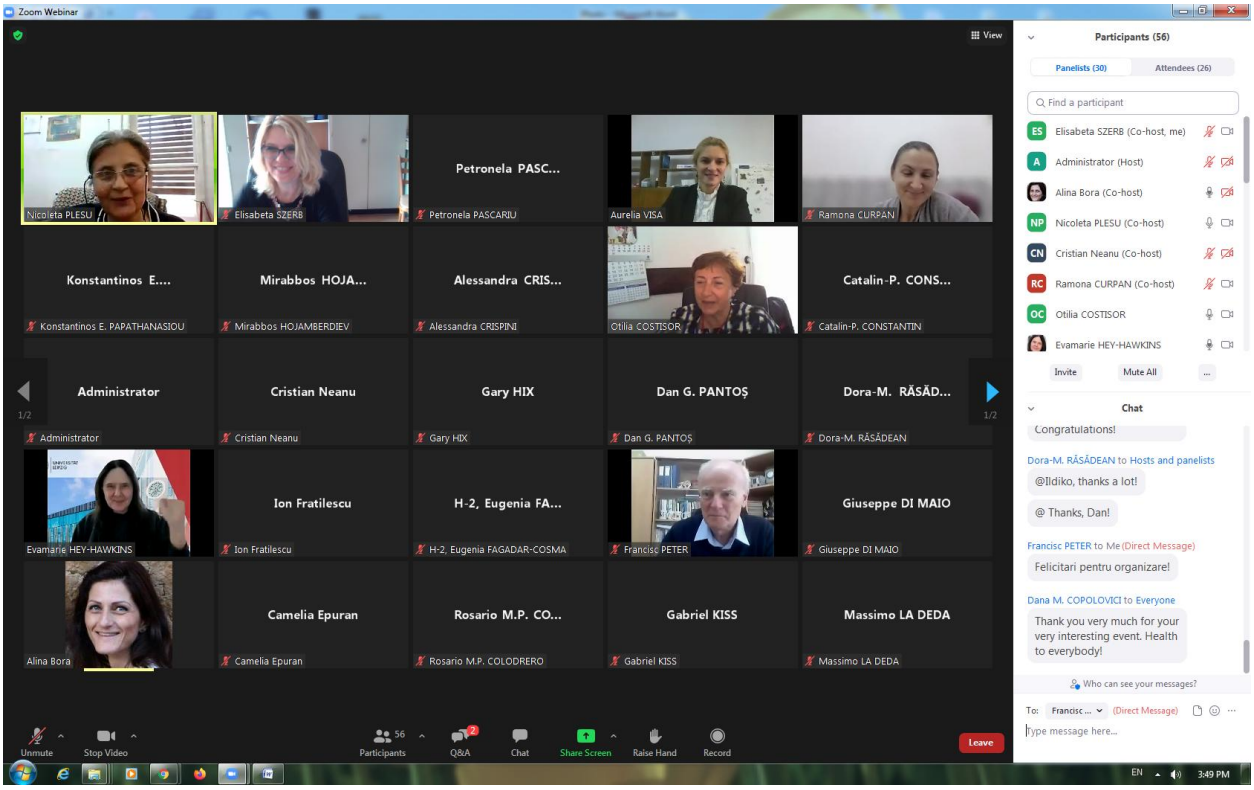
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Administrator (Host)
Alina Bora (Co-host)
Nicoleta PLESU (Co-host)
Cristian Neanu (Co-host)
Ramona CURPAN (Co-host)
Otilia COSTISOR
Evamarie HEY-HAWKINS
Invite
Mute All
Chat
Congratulations!
Dora-M. RĂSĂDEAN to Hosts and panelists
@Ildiko, thanks a lot!
@ Thanks, Dan!
Francisc PETER to Me (Direct Message)
Felicitari pentru organizare!
Dana M. COPOLOVICI to Everyone
Thank you very much for your very interesting event. Health to everybody!
Who can see your messages?
Type message here...
Nicoleta PLESU
Elisabeta SZERB
Petronela PASC...
Aurelia VISA
Ramona CURPAN
Konstantinos E....
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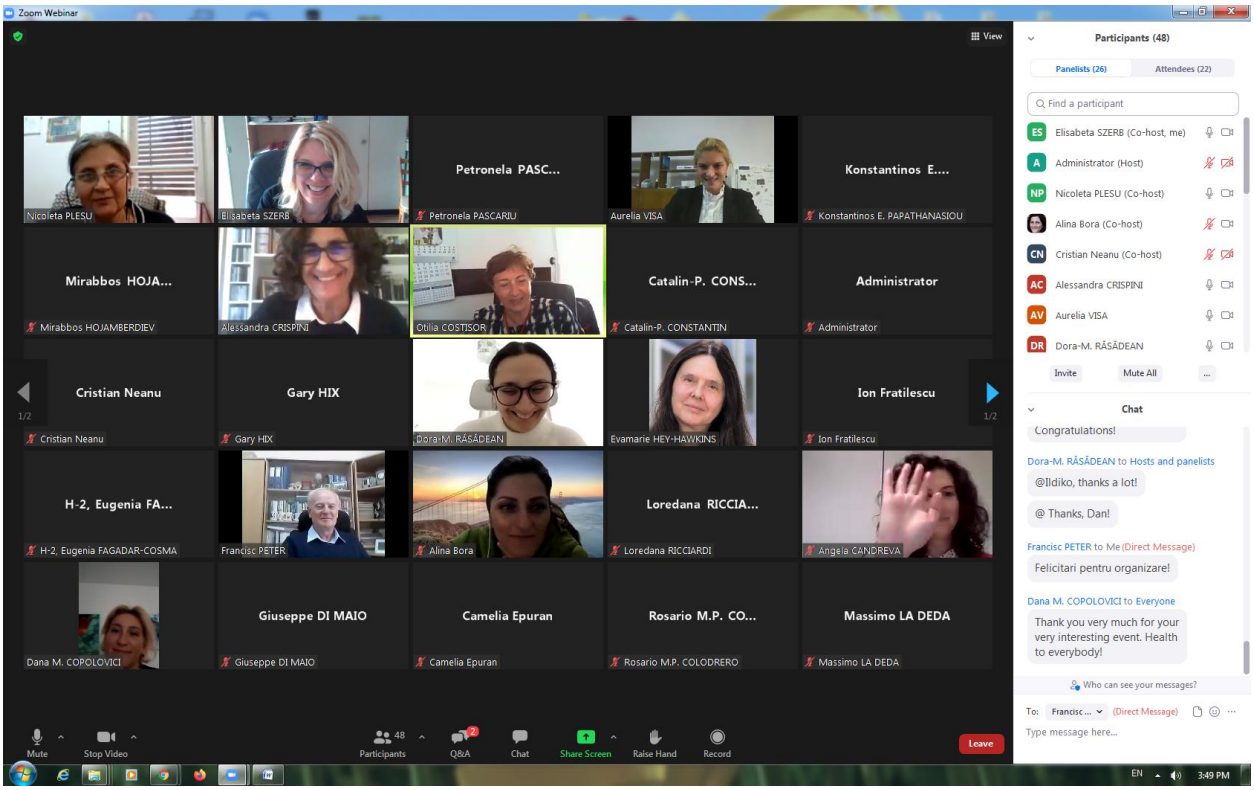
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Elisabeta SZERB (Co-host, me)
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Alina Bora (Co-host)
Cristian Neanu (Co-host)
Alessandra CRISPINI
Aurelia VISA
Dora-M. RĂSĂDEAN
Invite
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@ Thanks, Dan!
Francisc PETER to Me (Direct Message)
Felicitari pentru organizare!
Dana M. COPOLOVICI to Everyone
Thank you very much for your very interesting event. Health to everybody!
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Nicoleta PLESU
Elisabeta SZERB
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Aurelia VISA
Konstantinos E. PAPATHANASIOU
Mirabbos HOJAMBERDIEV
Alessandra CRISPINI
Otilia COSTISOR
Catalin-P. CONSTANTIN
Administrator
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Ion Fratilescu
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Alina Bora
Loredana RICCIARDI
Angela CANDREVA
Dana M. COPOLOVICI
Giuseppe DI MAIO
Camelia Epuran
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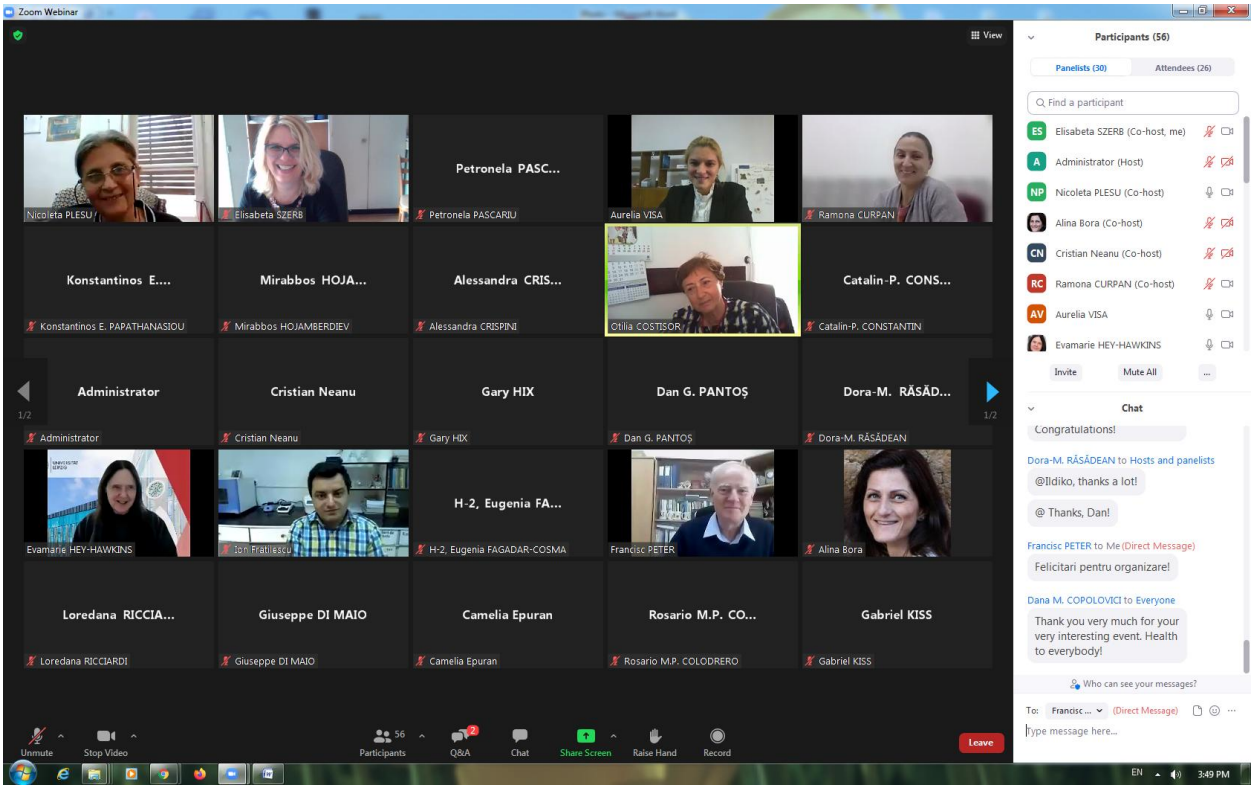
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@ Thanks, Dan!
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POSTERS SESION

1.	**PHOTOCATALYTIC COMPOSITE MEMBRANES FOR WATER TREATMENT: RESULTS, LIMITATIONS, AND NEW INSIGHTS** Radu Mihaela HOMOCIANU, Petronela PASCARIU
2.	**SILVER TUNGSTOPHOSPHATE/BETA ZEOLITE – A SOLUTION FOR PESTICIDE INDUCED OXIDATIVE STRESS** Dejana JANIĆIJEVIĆ, Anka JEVREMOVIĆ, Aleksandra JANOŠEVIĆ LEŽAIĆ, Bojana NEDIĆ VASILJEVIĆ, Snežana USKOKOVIĆ-MARKOVIĆ, Maja MILOJEVIĆ-RAKIĆ Danica BAJUK-BOGDANOVIĆ
3.	**IN VITRO CYTOTOXIC RESPONSE OF THE BEA ZEOLITE/ACETAMIPRID SYNERGISTIC ACTION** Anka JEVREMOVIĆ , Dragana ARSENIJEVIĆ , Aleksandar ARSENIJEVIĆ, Bojana NEDIĆ VASILJEVIĆ, Danica BAJUK-BOGDANOVIĆ, Maja MILOJEVIĆ-RAKIĆ
4.	**SYNTHESIS, CHARACTERIZATION AND CO_2 ADSORPTION-DESORPTION OF MCM-48 AND MCM-41 MOLECULAR SIEVE** Silvana BORCĂNESCU, Alexandru POPA, Paul BARVINSCHI, Orsina VERDES, Mariana SUBA
5.	**3D Cd(II) COORDINATION POLYMER ASSEMBLED FROM BIPHENYL-4,4'-DICARBOXYLIC ACID AND N,N'-(1,4-PHENYLENE)BIS(1-(PYRIDIN-4-YL)METHANIMINE) LIGANDS** Vasile N. LOZOVAN, Victor Ch. KRAVTSOV, Marina S. FONARI
6.	**NOVEL vic-DIOXIME LIGANDS AND ITS ANTIMICROBIAL ACTIVITY** Dumitru URECHE
7.	**THE CYCLIC ADSORPTION-DESORPTION OF CO_2 ON KIT-6 AND NI/KIT-6 STUDIED BY TEMPERATURE-PROGRAMMED DESORPTION** Mariana SUBA, Alexandru POPA, Orsina VERDEȘ, Silvana BORCĂNESCU, Paul BARVINSCHI
8.	**EXPLORATION OF MAO-B INHIBITORS AS A POTENTIAL ANTI-DIABETIC DRUG** Daniela ISTRATE, Luminita CRISAN, Alina BORA
9.	**INSIGHTS INTO CRYSTAL STRUCTURE AND HIRSHFELD SURFACE ANALYSIS OF Cu(II) TRIETHANOLAMINE 4-NITROBENZOATE** Anastasia GOROBET, Manuela E. CRISAN, Paulina N. BOUROSH, Lilia CROITOR
10.	**A WEB TOOL TO COMPUTE THE DIFFRACTION PRECISION INDEX OF PROTEIN STRUCTURES** Cristian NEANU, Sorin AVRAM
11.	**PROSPECTIVE FLUORESCENT PLANT GROWTH REGULATORS AND THEIR RESPONSE IN PLANTS** Manuela CRISAN, Liliana HALIP, Radu SUMALAN, Lilia CROITOR, Anatolii SIMINEL, Paulina BOUROSH, Yurii CHUMAKOV, Massimo MAFFEI
12.	**DISCRETE AND POLYMERIC Mn(II) COORDINATION COMPOUNDS WITH DIHYDRAZONE SCHIFF BASES** Olga DANILESCU, Lilia CROITOR, Maria COCU, Paulina N. BOUROSH, Ion BULHAC, Victor Ch. KRAVTSOV, Oleg PETUHOV
13.	**HOMO- AND HETEROMETALLIC Zn(II) AND Cd(II) COORDINATION POLYMERS CAPABLE OF RETAINING**

	GUEST MOLECULES Olga DANILESCU, Paulina N. BOUROSH, Oleg PETUHOV, Olga V. KULIKOVA, Yurii M. CHUMAKOV, Ion BULHAC, Lilia CROITOR
14.	**HIRSHFELD SURFACE ANALYSIS OF π-π STACKING INTERACTIONS IN THE CRYSTALS OF Cu(II) COMPLEXES WITH AROMATIC LIGANDS** Elena MELNIC, Yurii M. CHUMAKOV, Victor Ch. KRAVTSOV
15.	**HETEROMETALLIC $\{Fe^{III}_4Na_2\}$ PIVALATE CLUSTER – SYNTHESIS AND STRUCTURE CHARACTERISATION** Daniel PODGORNII, Svetlana G. BACA, Victor Ch. KRAVTSOV
16.	**BIMETALLIC LIQUID CRYSTALLINE FUNCTIONAL MATERIALS** Evelyn POPA, Bianca-Nicoleta BADESCU, Alexandru VISAN, Sorin MARINESCU, Ildiko BUTA, Carmen CRETU, Elisabeta I. SZERB
17.	**LINEAR TRINUCLEAR COBALT(II) ISOBUTYRATE WITH 1,10-PHENANTHROLINE** Ecaterina NIRCA, Victor Ch. KRAVTSOV, Svetlana G. BACA
18.	**REMOVAL OF ACETYLSALICYLIC ACID FROM AQUEOUS SOLUTIONS USING POLYMERS CONTAINING AMINOPHOSPHINIC GROUPS** Radu ARDELEAN, Aurelia VISA, Adriana POPA, Manuela MIHETIU, Corneliu-Mircea DAVIDESCU
19.	**POLYMERS OF VINYLPHOSPHONIC ACID WITH DIALKYLVINYL PHOSPHONATES AND THEIR ANTICORROSION PROPERTY** Lavinia MACARIE, Nicoleta PLESU, Gheorghe ILIA, Milica TARA-LUNGA-MIHALI, Adriana POPA
20.	**ORDERED MESOPOROUS SILICA FUNCTIONALIZED WITH AMINOPROPYL GROUPS BY CO-CONDENSATION AND POST GRAFTING** Ana-Maria PUTZ, Oleksandr I. IVANKOV, Cătălin IANĂȘI, Marija MILANOVIĆ, Ivan STIJEPOVIĆ, László ALMÁSY
21.	**CRYSTALLINE MULTI-COMPONENT COMPOUNDS INVOLVING HEXAAMMINE COBALT(III) CATIONS AND THEIR EFFECTS AGAINST PLANT PATOGENIC BACTERIA** Mariana DARII, Ecaterina NIRCA, Victor Ch. KRAVTSOV, Paulina BOUROSH, Jürg HAUSER, Silvio DECURTINS, Shi-Xia LIU, Olga SULTANOVA, Svetlana G. BACA
22.	**APPLICATION OF FULL FACTORIAL DESIGN FOR ADSORPTION OF METHYLENE BLUE DYE FROM AQUEOUS SOLUTION** Maria Andreea NISTOR, Simona Gabriela MUNTEAN, Liliana HALIP
23.	**LACCASSES STABILIZATION BY COVALENT IMMOBILIZATION ONTO FUNCTIONALIZED MAGNETIC AND SEPABEADS SUPORTS** Ioan BÎTCAN, Andreea PETROVICI, Andrei ȘTEFAN, Anamaria TODEA, Iulia PĂUȘESCU, Francisc PÉTER
24.	**ENZYMATIC APPROACH FOR THE SYNTHESIS OF ε-CAPROLACTAM AND HYDROXY ACIDS POLYESTERAMIDES** Ioana-Cristina BENEA, Diana Maria DREAVĂ, Anamaria TODEA, Lajos NAGY, Sándor KÉKI, Francisc PÉTER
25.	**POLYMERIC SORBENT FOR DYE RETAINING** Milica TARA-LUNGA-MIHALI, Nicoleta PLESU
26.	**MODULATED SYNTHESIS OF Zr(IV) METAL-ORGANIC FRAMEWORK BASED ON A DICARBOXYLIC ACID (H_2BDC)**

	Elena-Mirela PICIORUS, Alexandru POPA, Catalin IANASI, Elisabeta I. SZERB, Carmen CRETU
27.	**NATURAL PRODUCTS AS ANTI-HIV AGENTS: AN IN SILICO INSIGHT** Luminita CRISAN, Alina BORA
28.	**MONO- AND OLIGONUCLEAR COMPLEXES BASED ON A *O*-VANILLIN DERIVED SCHIFF-BASE LIGAND** Ildiko BUTA, Sergiu SHOVA, Sorina ILIES, Florica MANEA, Marius ANDRUH, Otilia COSTISOR
29.	**SYNTHESIS AND CHARACTERISATION OF 2-HYDROXYBENZYLIDENE DERIVATIVES** Livia DEVESELEANU-CORÎCI, Ana Maria PANĂ, Anca BELEAN, Sergiu SHOVA, Valentin BADEA, Liliana CSEH
30.	**CHEMICAL SPACE ANALYSIS OF PROTEIN KINASE CYSTEINOME** Luminita CRISAN, Liliana PACUREANU
31.	**EXPLORING THE MOLECULAR BINDING MECHANISMS OF CLINICALLY-RELEVANT SELECTIVE ESTROGEN RECEPTOR MODULATORS THROUGH MOLECULAR DYNAMICS SIMULATIONS** Ramona CURPĂN, Liliana HALIP, Ana BOROTA, Philipp MAXIMOV, Craig V. JORDAN
32.	**FINGERPRINTING G-PROTEIN COUPLED RECEPTORS SUPERFAMILY** Liliana HALIP, Ramona CURPAN, Ana BOROTA, Alina BORA, Sorin AVRAM
33.	**MANUKA HONEY AND ITS FLAVONOID COMPONENTS - AN AFFORDABLE THERAPEUTIC OPTION TO FIGHT SARS-COV-2 INFECTIONS: IN SILICO EVALUATION** Alina BORA, Liliana HALIP, Sorin AVRAM, Luminita CRISAN
34.	**BATCH AND CONTINUOUS FLOW AROMA ESTER SYNTHESIS BY SOL-GEL ENTRAPPED CANDIDA ANTARCTICA LIPASE B** Ivana MILOȘ, Mădălina GHEORGHE, Corina VASILESCU, Francisc PETÉR, Cristina PAUL
35.	**SYNTHESIS AND CHARACTERIZATION OF NEW RACEMIC SECONDARY ALCOHOL WITH 5-BENZYL-4-(4-METHYLPHENYL)-3-SULFANYL-1,2,4-TRIAZOLE STRUCTURE** Ion BURCĂ, Vladislav-Silvestru VALICSEK, Valentin BADEA, Vasile-Nicolae
36.	**A NEW LANDSCAPE FOR DRUG REPUROSING** Sorin AVRAM, Ramona CURPĂN, Liliana HALIP, Alina BORA
37.	**PREPARATION AND CHARACTERIZATION OF GOLD NANOCUBES TWO-DIMENSIONAL MONOLAYERS.** Giuseppe DI MAIO*, Angela CANDREVA, Francesco PARISI, Francesca SCARPELLI, Nicolas GODBERT, Iolinda AIELLO & Massimo LA DEDA
38.	**SYNTHESIS AND CHARACTERIZATION OF HYPER BRANCHED NANOPARTICLES WITH MAGNETIC AND PLASMONIC PROPERTIES.** Angela CANDREVA*, Francesco Parisia, Rosa Bartucci, Rita Guzzi, Giuseppe Di Maio, Francesca Scarpelli, Iolinda Aielloa, Nicolas Godbert and Massimo

Closing conference