

PORTO, 8TH TO 10TH SEPTEMBER '10

VI Congresso Ibérico

XXII Reunión Nacional

Espectroscópia

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VI Congresso Ibérico de Espectroscópia
XXII Reunión Nacional de Espectroscópia
(VI CIE - XXII RNE)

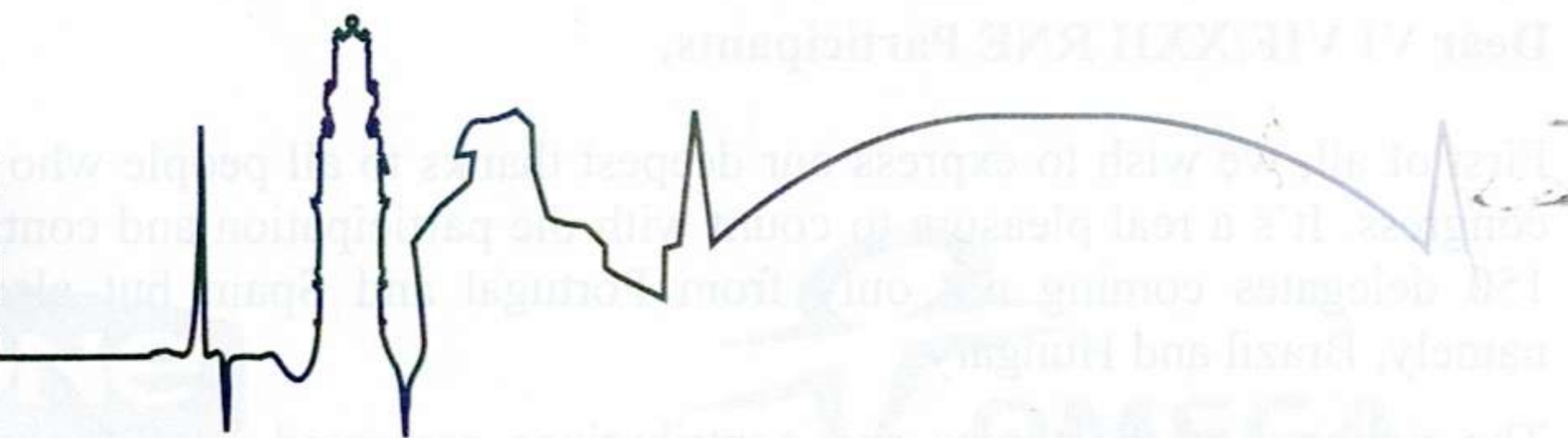
Fundação Eng. António de Almeida, Porto

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Espectroscopía



Local Organizing Committee

U.PORTO



FACULDADE DE FARMÁCIA
UNIVERSIDADE DO PORTO



requimte

rede de química e tecnologia

Prof. Isabel Ferreira

Prof. Paula Fresco

Prof. Carmen Diniz

Dr. Armindo Melo

Dr. Catarina Petisca

Dr. Ana Soares



Colaboration:



SEDOPTICA
SOCIEDAD ESPAÑOLA DE ÓPTICA

SEQA

Sociedad Española de Química Analítica



FUNDAÇÃO
ENG. ANTÓNIO DE ALMEIDA

FCT

Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

Dear VI VIE/XXII RNE Participants,

First of all, we wish to express our deepest thanks to all people who have contributed to this congress. It's a real pleasure to count with the participation and contribution from more than 150 delegates coming not only from Portugal and Spain but also from other countries, namely, Brazil and Hungary.

The richness of the topics and contributions presented in this congress has been able to present an intense and attractive programme that will promote discussion and exchange of ideas. In addition, the congress is held in an attractive city. Historic Centre of Porto has been classified by Unesco as "World Heritage" and has attractive places to visit and typical gastronomy. For sure, it will not disappoint you.

Thank you very much for coming to share your experiences with us. We hope that you enjoy your time in VI CIE/XXII RNE.

The Organizing Committee

Caro Participante no VI VIE/XXII RNE,

Em primeiro lugar, queremos manifestar o nosso mais profundo agradecimento a todas as pessoas que contribuíram para este congresso. É um prazer contar com a participação e contribuição de mais de 150 delegados provenientes não só de Portugal e Espanha, mas também de outros países, nomeadamente Brasil e Hungria.

A riqueza dos temas e das contribuições apresentadas neste congresso permitiu apresentar uma programação intensa e atractiva, que irá promover a discussão e troca de ideias. Além disso, o congresso é realizado em uma cidade agradável. O Centro Histórico do Porto foi classificado pela UNESCO como "Património Mundial" e tem lugares atrativos para visitar além de gastronomia típica. Com certeza, não vai decepcioná-lo.

Muito obrigado por ter vindo para partilhar suas experiências conosco. Esperamos que aprecie o seu tempo no VI CIE / RNE XXII.

O Comité Organizador

Estimado participante VI VIE / XXII RNE,

En primer lugar, expresamos nuestro más profundo agradecimiento a todos aquellos que contribuyeron a este congreso. Es un placer contar con la participación y la contribución de más de 150 delegados procedentes de Portugal y España, sino también de otros países, principalmente Brasil y Hungría.

La riqueza de los temas y ponencias presentadas en este congreso ha sido capaz de presentar un programa intenso y atractivo que promueva la discusión y el intercambio de ideas. Además, el congreso se celebra en una ciudad agradable. Centro histórico de Oporto ha sido clasificado por la Unesco como "Patrimonio de la Humanidad" y tiene lugares atractivos para visitar y la gastronomía típica. Por supuesto, no le defraudará.

Muchas gracias por haber venido a compartir sus experiencias con nosotros. Esperamos que disfrute de su tiempo en el VI CIE RNE / XXII.

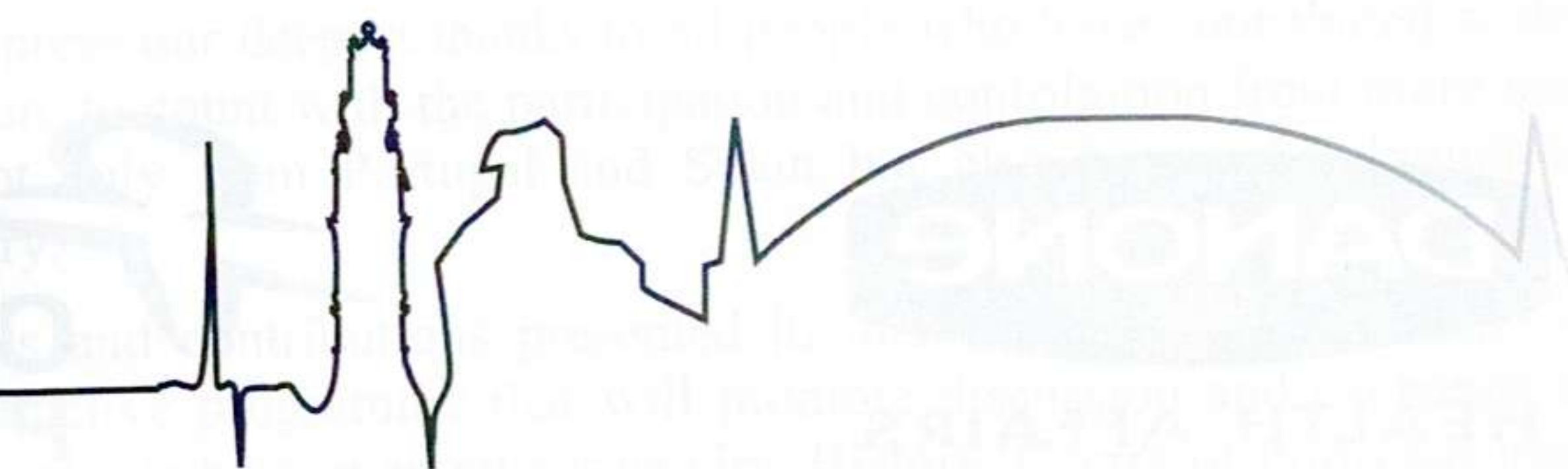
El Comité Organizador

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Scientific Committee

Prof. Maria Paula Matos Marques (Universidade de Coimbra)

Prof. Luís A.E. Batista de Carvalho (Universidade de Coimbra)

Prof. Isabel M.P.L.V.O. Ferreira (Universidade do Porto)

Dr. Beatriz Fernández (Universidad de Oviedo)

Dr. Milagros Gómez (Universidad Complutense de Madrid)

Prof. Santiago MasPOCH (Universidad Autónoma de Barcelona)

Prof. Pilar Bermejo (Universidad of Santiago)

Prof. Carmen Cámara (Universidad Complutense)

Prof. Luis Fermín Capitán (Universidad of Granada)

Prof. Manuel Hernández Córdoba (Universidad of Murcia)

Dr. Santiago Sánchez Cortés (CSIC-Madrid)

Prof. Paz Sevilla Sierra (Universidad Complutense de Madrid)

Dr. Belén Maté Naya (CSIC-Madrid)

**VI CONGRESSO IBÉRICO DE ESPECTROSCOPIA - XXII REUNIÃO
NACIONAL DE ESPECTROSCOPIA (VI CIE - XXII RNE)**

PROGRAM

Wednesday, September 8th	
Topic: Food Science	
8.30	Reception desk
9.30	Opening session
Chair: Isabel Ferreira Pilar Bermejo	
9.45	Opening lecture The application of spectroscopy and spectrometry for the analysis of polysaccharides Manuel Coimbra , Aveiro, Portugal
10.30 - 11.30	Coffee break / Poster viewing (P1 - P18)
11.30 - 12.00	Invited lecture Vibrational spectroscopy in the agroalimentary industry: the case of olive oil production Maria José Ayora , Jaén, Spain
12.00 - 13.15	Oral presentations
12.00	OP1 "Classification of chilean wheat and flour according to geographic origin using near infrared spectroscopy"
12.10	OP2 "Determination of phenolic compounds of grape skins using near infrared spectroscopy"
12.20	OP3 "Determination of the legislated metals in different categories of olive and olive-pomace oils"
12.30	OP4 "Pressurised enzymatic hydrolysis as novel sample pre-treatment for arsenic speciation in seafood samples by HPLC-ICP-MS"
12.40	OP5 "UV/Vis spectrometry for evaluation of chemical interaction between HMF and lysine / BSA"
12.50	Discussion

13.15	Lunch
Topic: Instrumentation & Theoretical Approaches	
Chair: Paula Marques Santiago Sanches-Cortes	
15.00	Plenary lecture Synchrotron-based infrared microspectroscopy: Development, applications and perspectives Gary Ellis , Madrid, Spain
15.45	Invited lecture Conformational dynamics and biomolecular interaction using fluorescence micro-spectroscopy methods Pilar Lillo , Madrid, Spain
16.15 - 17.15	Coffee break / Poster viewing (P19 - P45)
17.15 - 18.00	Rountable - New developments in spectroscopy Sponsored by enterprises
18.00 - 19.00	Oral presentations
18.00	OP6 "Chiral terpenes in the gas and liquid phases Conformational landscape studied by MB-MWFT, VCD, Far-IR, Mid-IR and Raman spectra"
18.10	OP7 "First-principles study of the solid-state RAMAN spectra of c-DDP, c-DDPd, t-DDP, t-DDPd, Pt ₂ Cl ₂ (spm) and Pd ₂ Cl ₂ (spm)"
18.20	OP8 "On the determination of a mixture's composition by a novel method Direct Inversion in the Spectral Subspace (DISS)"
18.30	OP9 "Preliminary design of an IR microspectroscopy beamline for the Spanish Synchrotron ALBA"
18.40	Discussion

Thursday, September 9th	
Topic: Nanostructures, Speciation & Archeometry	
Chair: Luís Batista de Carvalho Manuel Hernández Córdoba	
9.00	Plenary lecture Strategies to improve sensitivity and selectivity of vibrational spectrometry methods Miguel de la Guardia , València, Spain
9.45 - 10.30	Oral presentations
9.45	OP10 "A novel Silver-Quantum Dots "sponge" nanocomposite as SERS-active substrate"
9.55	OP11 "Application of stable isotopes and isotope pattern Deconvolution-ICP-MS to speciation of endogenous and exogenous selenium and iron in rats tissues"
10.05	OP12 "Chemical analysis of archaeological material in submarine environments using libs. technology development and on-site trials in the Mediterranean sea"
10.15	Discussion
10.30 - 11.30	Coffee break / Poster viewing (P46 - P72)
11.30 - 12.00	Invited lecture Simultaneous elemental and molecular analysis by pulsed glow discharge coupled to time of flight mass spectrometry. Application to the identification of polymers and to speciation Rosario Pereiro , Oviedo, Spain
12.00 - 12.30	Invited lecture Surface mass spectrometry with focussed beams Jose Miguel Vadillo , Malaga, Spain
12.30 - 13.15	Oral presentations
12.30	OP13 "Comparative studies of the internalization of gold nanoparticles in HEPG2 and CACO-2 cell lines"

12.40	OP14 "Portable Raman Spectroscopy for the study of Nasrid plasterworks in the Alhambra Palace, Granada, Spain"
12.50	OP15 "ROS and RNS fluorescence sensing by the europium-tetracycline complex"
13.00	Discussion
13.15	Lunch
15.00	Boat Trip / Celars Visit

Friday, September 10th	
Topic: Biochemistry, Forensics & Environment	
Chair: Paula Fresco Santiago MasPOCH Andrés	
9.00	Plenary lecture Circular dichroism - enantiomeric analysis: a fruitful marriage Angel Rios , Castilla-la Mancha, Spain
9.45 - 10.30	Oral presentations
9.45	OP16 "Acid and ups-accelerated digestions for the characterization of PT-binding sites in Cytochrome C and myoglobin by Mass Spectroscopy"
9.55	OP17 "FT-IR in biological tissue with <i>b. jararaca</i> venom"
10.05	OP18 "NMR-based metabonomics of urine for the monitoring of pregnancy and pregnancy-related disorders"
10.15	Discussion
10.30 - 11.30	Coffee break / Poster viewing (P73 - P106)
11.30 - 12.00	Invited lecture Atomic spectroscopy in clinical chemistry / technology Agostinho Almeida , Porto, Portugal
12.00 - 12.30	Invited lecture Innovative strategies for sample preparation based on liquid-phase microextraction in combination with different analytical techniques Carlos Bendicho , Vigo, Spain
12.30 - 13.15	Oral presentations
12.30	OP19 "Analysis of total extractable hydrocarbons in environmental water samples. Implementation and validation of a FT-IR method."
12.40	OP20 "Evaluation of a new approach for estimating the <i>post-mortem</i> interval based on the direct skin surface analysis using FTIR SPE"

12.50	OP21 "The use of <i>larvae</i> zebra fish as an alternative to OCDE305. Test to evaluate bioaccumulation of As and TBT"
13.00	Discussion
13.15	Lunch
Topic: Biochemistry, Forensics & Environment	
Chair: Carmen Diniz Belén Maté	
15.00	Invited lecture Spectroscopy tools for probing hot magnetically confined plasmas in the TJ-II Stellarator Kieran McCarthy , Madrid, Spain
15.30	Invited lecture Small amines as building blocks of novel Pt(II) and Pd(II) based anticancer agents: a spectroscopy approach Luís Batista de Carvalho , Coimbra, Portugal
16.00 - 17.00	Coffee break
17.00 - 18.00	Oral presentations
17.00	OP22 "A conformational study of 3-methyl-8-carboxylic acid flavone by vibrational spectroscopy"
17.10	OP23 "Isolamento e identificação de neolignana tetraidrofurânica de <i>Aristolochia birostris</i> Duchtr. (Aristolochiaceae)"
17.20	OP24 "Reddish Pigments in Octocorals by Raman Spectroscopy"
17.30	OP25 "Vibrational characterization and surface-enhanced Raman scattering detection of beta-agonists used in sport doping"
17.40	Discussion
18.00 - 19.00	Assemblies of each Society
21.00	Closing Dinner Awards

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	WEDNESDAY (8TH SET)	THURSDAY (9TH SET)	FRIDAY(10TH SET)
08.30	Reception desk	Plenary lecture Miguel de la Guardia University of Valencia	Plenary lecture Angel Rios University of Castilla -la Mancha
08.45			
09.00			
09.15			
09.30	Opining session	Oral presentations (3)	Oral presentations (3)
09.45	Plenary lecture Manuel Coimbra University of Aveiro		
10.00			
10.15			
10.30	Poster viewing (P1 - P18) / Coffee Break	Poster viewing (P46 – P72) / Coffee Break	Poster viewing (P73 – P106) / Coffee Break
10.45			
11.00			
11.15			
11.30	Invited lecture Maria José Ayora University of Jaén	Invited lecture Rosário Pereiro University of Oviedo	Invited lecture Agostinho Almeida University of Porto
11.45			
12.00	Oral presentations (5)	Invited lecture José Miguel Vadillo University of Malaga	Invited lecture Carlos Bendicho University of Vigo
12.15			
12.30		Oral presentations (3)	Oral presentations (3)
12.45			
13.00			
13.15	Lunch	Lunch	Lunch
15.00	Plenary lecture Gary Ellis Institute of Science and Tecnology of Polymers(CSIC)	Boat Trip/Cellars Visit	Invited lecture Keiran MacCarthy CIEMAT-Madrid
15.15			
15.30			
15.45	Invited lecture Pillar Lillo Institute of Physical Chemistry (CSIC)		Invited lecture Luís Batista de Carvalho University of Coimbra
16.00			
16.15			
16.30	Poster viewing (P19 – P45) / Coffee Break		Coffee Break
16.45			
17.00			
17.15	Roundtable		Oral presentations (4)
17.30			
17.45			
18.00	Oral presentations (4)		Assemblies of each Society
18.15			
18.30			
18.45			
19.00			
19.15			
19.30			
21.00			
		Closing Dinner / Awards	