

IC-EXPOI

Congreso Internacional de Ingeniería

Schedule 5^o Thermal Spraying Meeting

Time	Contribution	Speaker	Affiliation	Country	Conference Title	Comments
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9:00 am - 9:45 am	Opening conference	Ph.D. Sergi Dosta	Universidad de Barcelona	Spain	La proyección térmica: Desarrollos y últimas tendencias	The time for this conference will be 35 min and 10 min for questions and answers
9:45 am - 10:00 am	Oral contributions	Ph.D. Candidate, Edwin Cadavid	Universidad de Antioquia	Colombia	Agglomeration of Al ₂ O ₃ nanometric and submicrometric particles by spray drying for their use as feedstock in thermal spraying coatings	The time for these contributions will be 10 min and 5 min for questions and answers
10:00 am - 10:15 am		M.Sc. Candidate Juan David Holguin Villa	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Flame spraying as alternative for sintering spray dried AT-13 granules	
10:15 am - 10:30 am		M.Sc. Candidate Róbin Nilson Muñoz	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Effect of the binder type on the yield of the 3-YSZ nanoparticles pelletized to their use as feedstock in thermally sprayed coatings	

Coffee-Time

10:50 am - 11:00 am	Laboratory Practice	Eng. Student Nicolás Puentes	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Fribility measurement on agglomerated powders	The time for both contributions will be 10 min including questions and answers
		Eng. Students YuryMar Aguas, Liz Johana Camargo	Universidad de Antioquia	Colombia	Manufacture of glass microspheres by oxy-fuel thermal spraying from recycled bottles	
11:00 am - 11:15 am	Oral contributions	M.Sc. Candidate Maria Estéfany Bedoya	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Characterization of YSZ powders obtained by ball mill grinding with possible application for TBCs thermal barrier systems	The time for these contributions will be 10 min and 5 min for questions and answers
11:15 am - 11:30 am		Ph.D. Julio Villafuerte	Centerline Windsor Ltd	Canada	Overview of current cold spray technology and its commercial applications	
11:30 am - 11:45 am		Eng. Marcos Tello	Rexco Tools	Colombia Ecuador Peru	Metal Spray Technologies and Applications	
11:45 am - 12:00 am		Eng. Carlos Andrés Zúñiga Gañán	Soldaduras industriales	Colombia	Thermal spraying by arc and flame in infrastructure elements to avoid corrosion	

Lunch

2:00 pm - 2:15 pm	Oral contributions	Ph.D. Candidate Esaú Moisés Rodríguez Viguera	CIATEQ Unidad Queretaro	México	Axisymmetric modeling and CFD simulation of cold projection for ceramic particles of HAP (Hydroxyapatite)	The time for these contributions will be 10 min and 5 min for questions and answers
2:15 pm - 2:30 pm		M.Sc. Juan Camilo Arango Galvez,	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Study of thermal spray parameters through numerical simulations for ceramic powders	
2:30 pm - 2:45 pm		M.Sc. Candidate Jhonatan Román Román	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Contrast enhancement of defects in thermal barrier coatings by principal component thermography	
2:45 pm - 2:50 pm	Laboratory Practice	Eng. Student Carolina Chica	Universidad de Antioquia	Colombia México	Metallic Glass Coatings manufactured by flame spraying	The time for this contribution will be 5 min including questions and answers

Coffee-Time

3:00 pm - 3:15 pm	Oral contributions	Ph.D. Candidate Juan Carlos Jamboos	Centro de Tecnología Avanzada	México	Fabrication of Hydroxyapatite/Polyester composite coatings by high velocity oxygen fuel spray (HVOF)	The time for these contributions will be 10 min and 5 min for questions and answers
3:15 pm - 3:30 pm		Ph.D. Edward Ferney Restrepo Hoyos	Universidad de Antioquia Bonem S.A.	Colombia	Improvement of the structural quality of NiCrBSiFe coatings elaborated by oxy-acetylene flame spraying from control of the main process parameters	
3:30 pm - 3:45 pm		Ph.D. Martha Ferrer	Universidad Francisco de Paula Santander Universidad de Antioquia	Colombia	Thermal spraying by flame, is a way to obtain ceramic coatings resistant to wear at high temperatures	
3:45 pm - 4:00 pm		M.Sc. Candidate Andrés Felipe Revuelta	Thermal Spraying Program (UdeA-Unalmed-EAFIT-EPM)	Colombia	Assessment of delaminated areas in Thermal Barrier Coating subjected to Thermal Cycling by Infrared Thermography	

Coffee-Time

4:30 pm - 5:15 pm	Closing conference	Ph.D. John Dairo Henao Penenrey	CIATEQ Unidad Queretaro	México	Thermally sprayed hydroxyapatite-based coatings: advantages and challenges	The time for this conference will be 35 min and 10 min for questions and answers
5:15 pm - 6:00 pm	Discussion panel	Moderator: Ph.D. Claudia Palacio, Professor and Head of the Area of Materials, Energy and Industry at Eafit University-Colombia. Panelists: Ph.D. Pablo Andrés Gómez, Operations and Maintenance Department for Energy Generation at EPM-Colombia. M.Sc. Jairo Narváez, Manager of Ecosintesis enterprise-Colombia. Ph.D. Jhon Dairo Henao Penenrey, Professor at CIATEQ-México. Ph.D. Sergi Dosta Parras, Professor at University of Barcelona-Spain				