

Interreg
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EUROPEAN UNION

ADDISPACE

European Regional Development Fund

ADDISPACE

**Results Report of transfer
Conference 1 (morning)
and Workshop 2 (B2B-afternoon)**

**La Rinconada - Seville, Spain,
21/02/2018**

Reported by FADA-CATEC

1. EVENT INFO

The conference held in the Aerópolis Bussines Centre (La Rinconada –Seville-, Spain) next to CATEC Headquarters, during the 21st of February, 2018. The poster for the event is presented in Figure 1.



Figure 1. “Metal Additive Manufacturing” Conference poster.

The agenda of the event is presented in Figure 2.

PROGRAMME

21 FEBRUARY 2018



08:00 REGISTRATION

09:00 CONFERENCE

OPENING CEREMONY
 Olivier Larre - ESTIA, France | Fernando Lasagni - CATEC, Seville, Spain
 Chairman: Dr. Fernando Lasagni

09:10 | Jorge Vilanova Calvo - AIRBUS DEFENCE & SPACE, Space Systems, Seville, Spain
 09:40 | Guillermo Requena - DLR (German Aerospace Center) Institute of Materials Research, Cologne, Germany
 10:10 | Fernando Lartategui - ITP AERO
 10:40 | Jose Manuel Martín-Márquez - AIRBUS DEFENCE & SPACE, Tablada Factory, Seville, Spain

11:10 COFFEE BREAK
 Chairman: Prof. Olivier Larre

11:40 | Marta García-Cosío - CITD Space Engineering & Technologies
 12:05 | Esteban Celemin, Eduardo Lapeña - TRYO AEROSPACE, Madrid, Spain
 12:30 | José Martín Bravo - ALESTIS AEROSPACE, Seville, Spain
 12:55 | Iñigo Berertebide - RENISHAW IBÉRICA
 13:20 | Rocío Núñez - PRINCIPIA (Dassault Systèmes)

14:00 LUNCH

15:00 ADDISPACE PRESENTATION

15:00 ADDISPACE Overview
 Olivier Larre. (ESTIA)

15:20 **Pilot 1** "Machining of additive manufactured parts - application case"
 Antonio Perrián (CATEC), Bruno Silva (MICRONORMA), Miguel José dos Reis Silva (IP LEIRIA)

15:40 **Pilot 2** "Showcase of Laser Metal Deposition for large structural parts"
 Miguel José dos Reis Silva (IP LEIRIA), María Mar Alcazar (GNC), Pierre Diaz (ESTIA), Filipe Coutinho (ADIRA)

16:00 **Pilot 3** "Wire based Additive Manufacturing for large parts"
 Philippe Verlet (VLM), Lexuri Vazquez (LORTEK), Pierre Diaz (ESTIA)

16:20 **Pilot 4** "Topology optimization of space hardware"
 Lexuri Vazquez (LORTEK), Antonio Perrián (CATEC), Filipe Coutinho (ADIRA)

15:00 B2B

17:00 VISIT TO CATEC HEADQUARTERS

CLOSING
 Fernando Lasagni - CATEC, Seville, Spain



online registration at: www.addispace.eu/en/conference

Figure 2. Event agenda.

2. SHORT DESCRIPTION

Relevance to ADDISPACE project

This conference supposed a crucial opportunity to spread the knowledge and advances achieved in the metal additive manufacturing (MAM) field, focused in aerospace, which is the base of the ADDISPACE project. Among the presentations, the attendance could identify developments in this area of some of the leading edge companies in the sector. Additionally, the PYMEs and Research Centres within the project took advantage of the event to show their MAM highlights in the frame of this Interreg project.

Moreover, the event was a perfect unification of most of the objectives pursued in the ADDISPACE project. Not only was a platform for knowledge dissemination, but it also was a meeting point for PYMEs, Research Centres and other professionals of the sector to create collaboration opportunities. This was achieved thanks to the B2B experience.

Event description

The conference was a meeting point for aerospace companies related to the multiple areas of work and knowledge within the sector. As it has been introduced in the previous section, the event may be described in a composition of presentations and companies meetings. Presentations could also be classified in categories, so the event was composed as presented down below:

- Presentations of MAM research developments
- Presentations of MAM works and achievements in companies
- Presentations of milestones and developments within ADDISPACE project
- B2B (Business To Business)

All the presentations took place in the conference hall of Aerópolis building (located in Parque Tecnológico Aeroespacial de Andalucía, La Rinconada, Spain). They were performed progressively and with no parallel events except for the ADDISPACE project expositions and B2B meetings which occurred simultaneously.

The meetings arranged for the B2b are presented in Figure 3 as well as the companies that participated in the initiative.

	ADDIMAT	AIR LIQUIDE	Altair	ALTEN	Análisis y Simulación S.L.	CATEC	CEIT-ik4	Comher	DENA TEK	ENGINEERING AND MANUFACT	ESTIA ADDIMADOUR	GNC LASER	IK4 LORTEK	MSC SOFTWARE	Optimus 3D, SL	Praxair España, S.L.U.	PRINCIPIA Ingenieros Consultores	PSV Technologies,LLC	RAMEM	Renishaw Ibérica, S.A.U.	Sevilla Control	SIEMENS S.A.	Sokar Mechanics, S.L.	Traducciones JMV	TRYO AEROSPACE	UMI AERONAUTICA	VLM Robotics	ROVIMATICA S.L.	UMI AERONAUTICA	XX
ADDIMAT	X																								X	X				
AIR LIQUIDE		X																									X			
Altair			X										X													X				
ALTEN				X							X	X				X								X				X		
Análisis y Simulación S.L.					X					X					X										X	X				
CATEC						X						X			X									X		X				
CEIT-ik4							X																X				X			
Comher	X							X		X					X															
DENATEK	X			X	X	X	X	X	X	X	X	X			X	X	X			X	X	X	X	X	X	X	X			
ENGINEERING AND MANUFACTURING TECH. S.L.		X							X						X	X							X							
ESTIA ADDIMADOUR									X																					
GNC LASER				X												X														
IK4 LORTEK				X		X																								
MSC SOFTWARE									X																					
Optimus 3D, SL							X															X	X							
Praxair España, S.L.U.													X											X				X		
PRINCIPIA Ingenieros Consultores					X					X														X						
PSV Technologies,LLC										X												X	X							
RAMEM		X		X	X	X	X	X	X	X	X	X	X	X	X	X					X	X		X	X	X	X	X	X	
Renishaw Ibérica, S.A.U.																					X		X	X	X					
Sevilla Control	X			X		X		X	X	X	X	X	X	X	X	X	X			X		X	X	X				X		
SIEMENS S.A.																											X			
Sokar Mechanics, S.L.	X			X	X				X	X	X	X	X	X	X	X			X				X	X						
Traducciones JMV																														
TRYO AEROSPACE	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	
UMI AERONAUTICA	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
VLM Robotics				X										X								X								
ROVIMATICA S.L.																														
Ayesa Air Control																												X		
																														1

Figure 3. B2B organization.

Attendance

More than 100 attendees from different companies participated in the event. The companies registered for the conference are presented down below:

- ADDIMAT
- AIR LIQUIDE
- Altair
- ALTEN
- Análisis y Simulación S.L.
- CATEC
- CEIT-IK4
- Comher
- DENATEK
- ENGINEERING AND MANUFACTURING TECHNOLOGIES S.L.
- ESTIA ADDIMADOUR
- GNC LASER
- IK4 LORTEK
- MSC SOFTWARE
- Optimus 3D, SL
- Praxair España, S.L.U.
- PRINCIPIA Ingenieros Consultores
- PSV Technologies,LLC
- RAMEM
- Renishaw Ibérica, S.A.U.
- Sevilla Control
- SIEMENS S.A.
- Sokar Mechanics, S.L.
- Traducciones JMV
- TRYO AEROSPACE
- UMI AERONAUTICA
- VLM Robotics
- ROVIMATICA S.L.
- Ayesa Air Control

Conclusions

- Effective captor of attention: mailing lists in combination with informative posters
- Great interest in actual cases of application: actual figures, success and new developments
- B2B meetings were strongly well-accepted by the attendants to the conference
- Productive contacts exchanges during B2Bs

3. SHORT NEWS

On 21 February 2018, CATEC (the Advanced Center for Aerospace Technology) located in Seville - Spain, brought together specialists of the aerospace sector, experts in materials in the research and development field, and professionals from multiple manufacturing industrial techniques in the conference “Metal Additive Manufacturing for aerospace applications”.

The conference, promoted in the frame of ADDISPACE project, was marked by the presentations of novel components, manufactured through metallic powderbed based laser fusion (PBLF) technology, for aircrafts and aerospace launchers. The very latest material developments for PBLF and information to support the whole manufacturing process was spread by first-class speakers. The session ended with the dissemination of the main achievements of ADDISPACE and with B2B meetings arranged between the companies registered for the event, wich became a complet success in terms of acceptance and participation.



Figure 4. Presentation during “Metal Additive Manufacturing” Conference in Seville.



Figure 5. ADDISPACE Steering Group in the façade of CATEC Headquarters.

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