

XFlow User Conference

October 2-3, 2017 | Madrid, Spain



PROGRAM



3DEXPERIENCE®

Hosted by **Dassault Systèmes SIMULIA** at the [Fundación Francisco Giner de los Ríos](#), this event is a world class opportunity to bring together distinguished leading experts in the field of Computational Fluid Dynamics simulation technology. This User Conference provides the perfect context for you to share your experiences with our team and other customers, and to learn about our future plans and product roadmap. We hope you enjoy this experience and walk away with a better understanding of our product.

Presenters

Raul Llamas
AIRBUS



Raul Llamas holds an Aeronautical Engineering degree from the University of Madrid, an MSc in Aerospace Vehicle Design (University of Cranfield) and a MS in Physics (UNED). He currently works in the Future Projects Office in Airbus Spain developing new aircraft configurations and technologies. Raul is also an associate professor in the European University of Madrid.

Luc Van Bavel
Luc Van Bavel Design



Luc Van Bavel is an aircraft designer based in Quebec City. He has been involved with the development of several personal jets such as the Safire Jet, Diamond D-JET and Epic Aircraft Victory jet. He has worked with Bombardier Aerospace on Special Mission aircraft and Luc is currently involved in a military trainer aircraft program in the United States.

Takeshi Yamaguchi
AISIN AW



Takeshi Yamaguchi is currently a senior researcher at AISIN AW Co., Ltd. and prior to that role, he was part of the company's design department. He holds a Ph.D. from Kyusyu Institute of Technology, Japan and a M.S. from San Diego State University, U.S.A.

Tom Shieh
Toyota TEMA



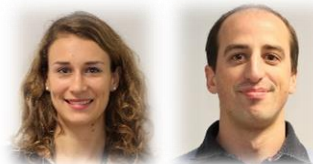
Tom Shieh is the CFD Group Manager at TEMA-TTC. He joined the company in January 2002. The CFD group is responsible for the new methodology development and applications for new engine design.

Hermann Maier
Gridlab



Hermann Maier is the owner & managing director of Gridlab GmbH in Austria. He studied Chemical Engineering at the University of Technology Graz and holds a PhD from the same university. His PhD dissertation was about CFD-modelling of the multiphase flow in FGD scrubbers.

Marine Robin
Pascal Mingret
Safran Helicopters Engines



Safran is the world's leading manufacturer of gas turbine engines for both civil and military helicopters

Omer Bar Yohay
EVIATION AIRCRAFT

EVIATION has deep experience leading successful tech companies and programs, including innovations in drone logistics, metal-air energy solutions, and air simulation systems.

Philippe Stephanie
RUAG

RUAG Aviation is a leading supplier, support provider and integrator of systems and components for civil and military aviation worldwide.

Young S. Won
DELTA ES

Delta ES Co., Ltd. is a veteran engineering simulation company that was composed entirely of CAE/CFD experienced engineers in variety industries.

Esteban Ferrer
Noelia Llorente
Universidad Politecnica de Madrid

Polytechnic University of Madrid is one of the first academic collaborator of XFlow for research and teaching purposes.

José Luis Martinez
INES Ingenieros

José Luis is a Structural Engineer in Ines Ingenieros, a civil engineering company working in the design, construction, maintenance, preservation and rehabilitation, adaptation and demolition of infrastructures



Bruno Saint-Rose
THE OCEAN CLEANUP

The Ocean Cleanup is an innovative startup that develops technologies to extract plastic pollution from the oceans and prevent more plastic debris from entering ocean waters

Max Lai
SOYOTEC

Soyotec Ltd is a custom computer programming service in China, helping to introduce XFlow to Chinese market since 2012.

Jac Van Egmond
mvAERO

mvAERO is a CFD consulting company founded by Jac Van Egmond in the Netherlands.



Tristan Soubrié
ANDHEO

Tristan is the CEO of ANDHEO, a consulting company based in Toulouse area in France. The company provides analysis services to large aerospace companies and OEMs.



SPONSORS

Iago Fernández



GOMPUTE

Gompute has been developing HPC solutions since 2002 to cover the needs of large enterprises and small consultants the company offers a complete portfolio that allow users to fulfill all their needs from a unique HPC partner.

Jonatán Felipe



ITER

ITER's TeideHPC is the second most powerful supercomputer in Spain, providing XFlow customers on-demand HPC power to run their simulations with good technical support and a very competitive cost.

AGENDA:

The presentations will be distributed over two days between keynote presentations and expert sessions. Personal invitations will be sent to the attendees for the Gala Dinner organized at the end of the first day of the conference.

The third day will be dedicated to a technical workshop provided by XFlow technical team to the attendees with prior registration

Day 1 - Conference - Monday, October 2, 2017

Time	Session	Speaker	Title
8:30 - 9:00 am	Arrival and Registration		
9:00 - 9:30 am	Welcome	David Holman , XFlow General Manager Colin Mercer , SIMULIA R&D VP	Welcome Words and Overview of Dassault Systèmes SIMULIA
9:35 - 10:15 am	Keynote	Airbus Jose Luis Martinez-Muñoz, Projects Engineer	Aircraft preliminary design with XFlow
10:20 - 10:40 am	Expert session	ANDHEO Tristan SOUBRIE, CEO	Impact of helicopter rotor head turbulent wake on tail parts
10:45 - 11:10 am	Break		
11:15 - 11:35 am	Expert session	AISIN AW Takeshi Yamaguchi, Engineering Dep. CAE Gr.	Simulation of the flow field in a rotating single gear using immersed boundary method
11:40 - 12:00 am	Expert session	INES Ingenieros José Luis Martinez, Civil Engineer	CFD Aided Analysis of Structural Forces in Caleido Tower, Madrid
12:05 - 12:25 pm	Expert Session	Delta ES Young S. Won, CEO	
12:30 - 2:00 pm	Lunch Time		
2:05 - 2:45 pm	Keynote	Safran Helicopter Engines Pascal Mingret, Fuel Pump Expert Engineer	External and internal gear pumps analysis of a helicopter engine
2:50 - 3:20 pm	Expert session	Universidad Politecnica de Madrid (UPM) Presenter 1: Esteban Ferrer Presenter 2: Noelia Llorente	Presentation 1: Simulation of detached turbulent flows using XFlow Presentation 2: CFD simulation of sieve tray hydraulics using the Lattice Boltzmann Method
3:20 - 3:35 pm	Sponsor Session	Gompute Iago Fernández, Cloud Sales Director	
3:40 - 4:05 pm	Break		
4:10 - 4:30 pm	Expert Session	Eviation Omer Bar-Yohay, CEO	
4:35 - 4:55 pm	XFlow Technology	Dassault Systèmes Ruddy Brionnaud, Lead XFlow Application Engineer	XFlow 2017 Build 102, new features and Improvements
5:00 PM	End Day 1		
8:00 PM	Gala Dinner		

Day 2 – Conference - Tuesday, October 3, 2017

Time	Session	Speaker	Title
8:30-9:00	Arrival		
9:00 - 9:40 am	Keynote	The Ocean Cleanup Benedicte Dommergues, Computational Modeler	CFD as a tool to design a plastic cleanup system - Impact of the geometry of a drift anchor on the flow around it and on its drag
9:45 - 10:05 am	Expert session	Luc Van Bavel Inc. Luc Van Bavel, CEO	Aircraft rigid body dynamics validation case study
10:10 -10:30 am	Expert session	Toyota Tom Shieh	
10:35-11:00 am	Break		
11:05 -11:25 am	Expert session	Soyotec Max Lee	
11:30 - 11:50 am	Expert Session	Safran Helicopter Engines Marine Robin, Hydromechanics Engineer	Analysis of the secondary air system of a helicopter engine
11:55 - 12:15 pm	Expert session	Jac Van Egmond MVAero, Lead Aerodynamicist	How XFlow improved my conceptual understanding of aerodynamics
12:30 - 2:00 pm	Lunch Time		
2:05 - 2:45 pm	Keynote	Honda Keijiro Koide Assistant Chief Engineer	Introduction of engine development use case for the purpose of improving CFD efficiency
2:50 - 3:10 pm	Expert session	BETTERFLOW Ingo Martin	
3:15 - 3:30 pm	Sponsor Session	ITER (Teide HPC) Jonatán Felipe	
3:35 - 4:00 pm	Break		
4:05 - 4:25 pm	Expert Session	Gridlab Dr. Herman Maier, Managing Director	Mixing tank modelling with XFlow
4:30 - 4:50 pm	XFlow Technology	Dassault Systèmes Giuseppe Trapani, XFlow Application Engineer	XFlow live demonstration
5:00 PM	End Day 2		

Day 3 - Workshop - Wednesday, October 4, 2017


Time	Session	Content
8:30 - 9:00 am	Arrival and Installation	
9:00 - 9:30 am	Introduction	Workshop Introduction and XFlow Overview
9:30 - 10:00 am	Lecture 1	Single-Phase Flow
10:00 -11:00 am	Case 1	External aerodynamics analysis of a DrivAer car model
11:00 - 11:25 am	Break	
11:30 -12:00 am	Lecture 2	Fluid-Structure Interaction (FSI)
12:00 - 13:00 pm	Case 2	UAV quadcopter performance with rotating blades
13:00 - 2:30 pm	Lunch Time	
2:30 - 3:00 pm	Lecture 3	Free-surface Flow
3:00 - 4:00 pm	Case 3	Free-surface tracking in a tank sloshing analysis
4:00 - 4:30 pm	Lecture 4	Multiphase Flow
4:30 - 5:30 pm	Case 4	Gearbox lubrication analysis with real moving gears
5:30 - 6:00 pm	Q & A	
6:00 AM	Workshop End	

LOCATION:

The Educational Institution was founded in 1876 by a group of university professors (including Francisco Giner de los Ríos) distanced from the University to defend academic freedom and who refused to adjust their teaching to any official religious, political or moral dogma.

It is a place of memory that preserves and disseminates the historical legacy of the Free Institution of Education and a center of reflection and foresight to give impetus to the educational and cultural modernization of our country, providing citizens with new educational and cultural infrastructures.



 Paseo del General Martínez Campos, 14,
28010 Madrid


 Iglesia

 More info: Simulia.XFlow-Events@3ds.com

GALA DINNER:

In addition to attending a series of unique events you will have the opportunity to celebrate and networking with your industry peers in a Gala Dinner, which will take place on Monday 2nd October at the renowned restaurant Palacio de Cibeles.

 Banco España

 Plaza Cibeles, 1, 28014 Madrid



ACCOMODATION:



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Reservations:

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REGISTRATION:

Type	Fee	Workshop
Academic	100€	75€
Presenter (prior approval)	200€*	200€
Attendee	400€*	250€
Sponsorship	2000€*	

Registration

More info: Simulia.XFlow-Events@3ds.com

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Dassault Systèmes, the **3DEXPERIENCE®** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

