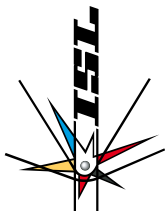




ISL  
 Service Communication  
 5 rue du Général Cassagnou  
 BP 70034  
 68301 SAINT LOUIS CEDEX

France



Deutsch-Französisches  
 Forschungsinstitut Saint-Louis



## Accommodation

ISL will reserve a block of rooms at reduced rates (indicated by \*). Accommodation at reduced rates cannot be guaranteed after the room block has been filled. You can choose your hotel in the following list:

### SAINT-LOUIS

\* LA VILLA K  
 1, rue de Lectoure  
 68300 SAINT LOUIS  
 ☎ +33 (0)3 89 70 93 40  
 ☎ +33 (0)3 89 70 93 41  
 www.lavillak.com  
 reception@lavillak.com

\* Hôtel IBIS  
 17 avenue du Gal de Gaulle  
 68300 SAINT LOUIS  
 ☎ +33 (0)3 89 69 06 58  
 ☎ +33 (0)3 89 69 45 03  
 www.ibishotel.com  
 h5612@accor-hotels.com

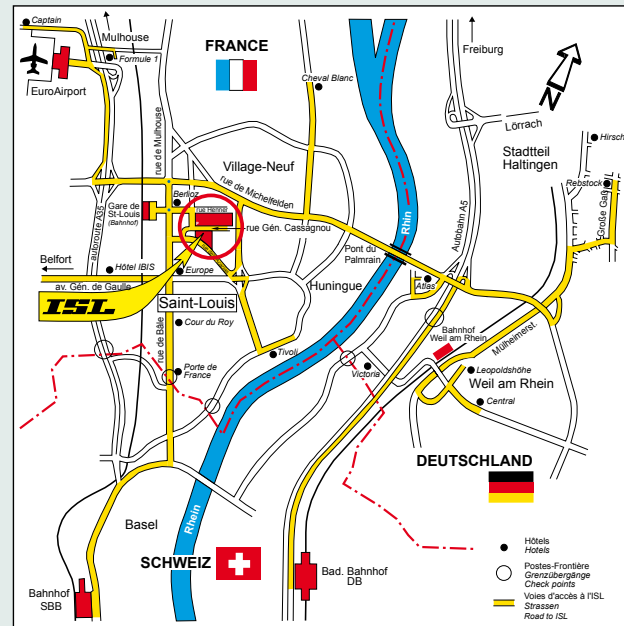
### BLOTZHEIM (6 km / ISL - 2 km / EuroAirport)

\* Hôtel CAPTAIN  
 rue du 19 Novembre - 68730 BLOTZHEIM  
 ☎ +33 (0)3 89 68 82 82  
 ☎ +33 (0)3 89 68 86 43  
 www.captainhotel.com  
 info@captainhotel.com

### WEIL AM RHEIN

OTT's Hotel LEOPOLDSHÖHE  
 Müllheimer Str. 4 - 79576 WEIL AM RHEIN  
 ☎ +49 (0)7621/9 80 60  
 ☎ +49 (0)7621/9 80 62 99  
 leo@ottshotel.de  
 www.otts-hotel-leopoldshoehe.de

ATLAS Hotel  
 Alte Str. 58 - 79576 WEIL AM RHEIN  
 ☎ +49 (0)7621/70 70  
 ☎ +49 (0)7621/70 76 50  
 www.atlashotel.de  
 Booking-code: ISL



ISL is situated in Saint-Louis (France) near the German and Swiss borders.

## Office

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 E-mail: communication@isl.eu - Web: www.isl.eu

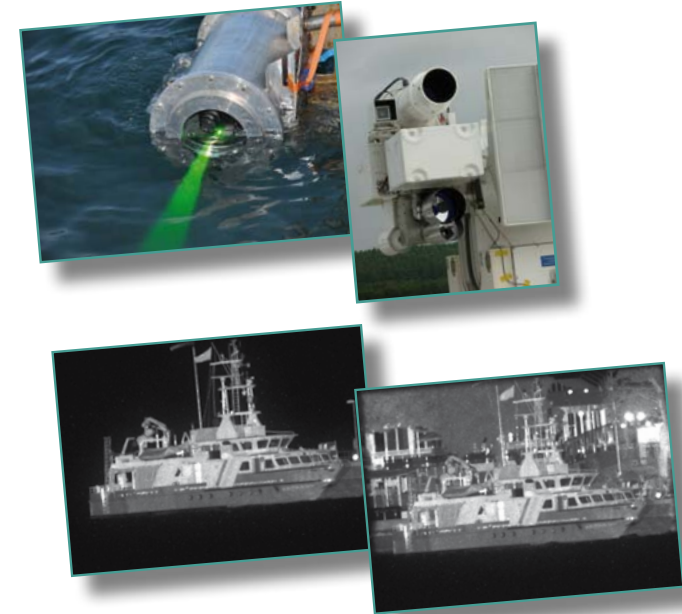


French-German Research  
 Institute of Saint-Louis

# Invitation

## 4<sup>th</sup> Workshop on Active Imaging 2013

November 20-21, 2013



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<http://www.isl.eu>

# 4<sup>th</sup> Workshop on Active Imaging 2013

4<sup>th</sup> Workshop on Active Imaging 2013  
November 20–21, 2013  
French-German Research Institute of Saint-Louis (ISL)

The fourth Workshop on Active Imaging will take place on November 20 and 21, 2013 and will be hosted by the French-German Research Institute of Saint-Louis (ISL).

This workshop will bring together researchers, operational staff, state representatives and industrial experts from different countries. It will enable to share current information and we hope that it will facilitate future joint collaborations.

There will be a special focus on military and civilian operational needs, 2D and 3D active imaging, system and technology aspects, multi-wavelengths imaging, data processing, modeling and simulation as well as performance assessment. Presentations on novel active-imaging concepts such as structured illumination imaging, polarization and spectral imaging, synthetic aperture or new time-of-flight imaging will also be treated.

## Registration

Please complete and return the attached registration form duly filled. Registration deadline is 31.10.2013.

## Program

### Wednesday, November 20th

**8h15 to 9h00: Registration at ISL entrance**

**9h00 to 13h00: Session on governmental needs and operational aspects**

*State of the art for SWIR-GV tests in Germany* – M. Gebauer, WTD91, Meppen  
*An overview of french activities in active imaging for military applications* – D. Riehl, DGA Ingénierie des projets, Bagneux

*Requirements and applications from the perspective of the police of the State of Lower Saxony in a laser-based imaging* – A. Soetbeer, Ministerium für Inneres, Hannover

*Tasks and findings of an EDA SWIR-GV study* – H.-W. Warnke, Rheinmetall, Bremen

### Session on theory, modeling and performance assessment

*1.5 μm flash imaging system – Comparison between field trials and the TTPM (Targeting Task Performance Model) predictive model* – O. Meyer, DGA MI, Bruz

*Ship localization in complex backgrounds* – I. Camino, U. Zölzer, Helmut Schmidt University, Hamburg

*Active imaging at Magellium: tools and simulators* – T. Ristorcelli, G. Cazanave, Magellium, Toulouse

*Comparison of flash and accumulation mode in range-gated active imaging* – F. Christnacher, M. Laurenzis, S. Schertzer, ISL, Saint-Louis

*Quantification of the atmospheric scintillation for different illumination technologies* – J.-M. Poyet, ISL, Saint-Louis, O. Meyer, DGA MI, Bruz

### 13h00 to 14h00: Lunch break

**14h00 to 18h00: Session on new component technologies for illumination or sensing**

*Very high energy nanosecond pulse infrared laser diode source* – A. Kohl, O. Rabot, A. Laugustin, Quantel, Les Ulis

*Laser diode stack beam shaping for long range active imaging illuminators* – Y. Lutz, J.-M. Poyet, N. Metzger, ISL, Saint-Louis

*Add-on flash module to enable gated active imaging capacity on virtually any imaging system* – R. Grasser, CILAS, Orléans

*Towards an InGaAs gated-viewing camera* – F. Rutz et al., Fraunhofer IAF, Freiburg

*Small pixel pitch solutions for active and passive imaging* – Y. Reibel et al., SOFRADIR, Veurey-Voroize, E. De Borniol et al., LETI, Grenoble

*Breaking down cost barriers for active imaging* – G. Powell, P. Fereyre, e2v, Saint-Egrève

*WDR Logarithmic CMOS sensor for intensified imaging applications* – Y. NI, New Imaging Technologies, Verrières le Buisson

### 19h30 to 22h00: Dinner

### Thursday, November 21th

**9h00 to 13h00: Session on demonstrations and applications of active imaging systems**

*A laser-based, optronic measurement system for exterior ballistics using methods of stereo-photogrammetry* – U. Chalupka, H. Rothe, Helmut Schmidt University, Hamburg

*Active gated imaging in driver assistance system* – Y. Grauer, BrightWay Vision, Haifa

*Recent development of the gated-viewing system demonstrator at Fraunhofer IOSB* – B. Göhler, P. Lutzmann, Fraunhofer-IOSB, Ettlingen

*Experiments and models of active and thermal imaging under bad weather conditions* – E. Bernard et al., Sagem, Massy, ONERA, Toulouse, ISAE DMIA, Toulouse

*Visualization of spatial information gained by active imaging using augmented reality technology* – M. Piszczek, M. Zarzycki, Military Univ. of Technology, Warszawa

*Range gating on target* – D. Brau, DVS – Photonic Science, Mountfield  
*Measurements and analysis of active and passive multispectral imaging* – Ch. Grönwall, FOI, Linköping

*Motion stabilized optical detection and ranging (MODAR®) for marine use* – M. Nägele, H.-J. Kessel, Optoprecision, Bremen

### 13h00 to 14h00: Lunch break

*SYMAGEX project : Active imaging system for underwater applications* – F. Taton et al., SYT, Nîmes

*Developments in advanced active Imaging for target identification* – R. A. Lamb et al., Selex ES Ltd, Edinburgh

**Session on advanced methods (multispectral, 3D imaging, range coding, scattered photons ...)**

*Image change detection using a SWIR active imaging system* – A. L. Schneider, D. Monnin, ISL, Saint-Louis

*3D Imaging demonstrator (DUMAS) main results* – Ph. Rivière, Thalès TOSA, Elancourt

*Hyperspectral image analysis for standoff detection of explosives* – J. Jarvis, F. Fuchs, Fraunhofer-IAF, Freiburg

*Computational optics in laser gated viewing: advanced range imaging and non-line-of-sight vision* – M. Laurenzis, ISL, Saint-Louis, A. Velten, Univ. of Wisconsin, Madison

*Terahertz active imaging* – B. Fischer, ISL, Saint-Louis

## Registration form

Access to ISL being restricted and only granted upon registration, please send us back your registration form before October 31st, 2013.  
An identity card or passport will be asked at the entrance to ISL.

**Even if you are a speaker, you have to register.**

**Please return the form electronically or to:**

ISL, Service Communication, 5 rue du Général Cassagnou, BP 70034

68301 SAINT LOUIS CEDEX – France

Fax: +33 (0)3 89 69 58 58 – E-mail: communication@isl.eu

Surname: ..... First name: .....

Date of birth: ..... Place of birth: .....

Nationality: .....

Firm or State organization: .....

Job, function: .....

Address: .....

Zip code: ..... City: .....

Phone number.: ..... Fax number: .....

E-mail: .....

[Click here to submit >>](#)

### For speakers ONLY

**All authorized presentations will be available for download on the ISL website (for the participants of the workshop only).**

**I hereby authorize ISL to distribute my presentation to the participants of the workshop.**

**No registration fees**

## Catering fees

- I will participate both days
- I will only participate the first day
- I will only participate the second day
- I will attend the dinner (November 20).

The dinner takes place outside ISL (~ 27 €). Lunch will be at the canteen of ISL. Both, dinner and lunch, have to be paid by the participant.