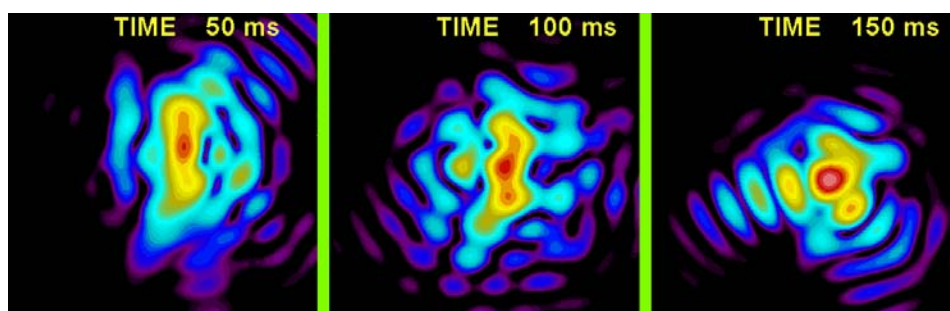




Workshop

Optical Propagation through the Turbulent Atmosphere (OPTA)



20-21 October 2009

French-German Research Institute of Saint-Louis, ISL
5 rue du Général Cassagnou
68 300 SAINT-LOUIS, FRANCE



<http://www.isl.eu>

Many outdoor optical techniques are greatly affected by the atmospheric turbulence, as experienced in various areas such as passive and active sensing, directed energy applications, astronomy etc. In the last decade, massive efforts have been devoted to understand and predict these alterations, as well as to develop some technologies that overcome them.

The French-German Research Institute of Saint-Louis (ISL)* organizes a workshop on this topic, with the scope to bring together scientists and engineers, and to provide an overview of some recent developments in the field. The workshop, entitled

Optical Propagation through the Turbulent Atmosphere (OPTA)

is intended to cover three specific areas:

- **Characterization of optical turbulence**

Studies devoted to document, understand and predict the various characteristics of the atmospheric fluctuations of impact to optical propagation. This may include experimental characterizations, e.g. scintillometry, as well as modeling approaches, e.g. with atmospheric simulations.

- **Optical propagation through turbulence**

Studies on the propagation of plane waves, spherical waves and laser beams as well as on optical imaging. Experimental, theoretical and numerical methods can be presented together with applications in terrestrial observation, in Earth observation and reconnaissance from satellites, and in astronomy.

- **Correction of optical turbulence effects**

Studies on wave-front sensing, deformable mirrors and control-loop technologies. Experimental and theoretical investigations may be presented with applications ranging from astronomy (image correction and laser-guide star) to long-range laser propagation and optical communication.

The present announcement is open to anyone interested in attending the Workshop. Participants are strongly encouraged to give an oral presentation of their studies and interests in the subject.

* The French-German Research Institute of Saint-Louis (ISL) is a binational institute, co-operated by the French Republic and the Federal Republic of Germany. Its mission is to « perform some researches and fundamental scientific and technical studies on armament » with a recent commitment toward civilian applications. More details can be found on <http://www.isl.eu>.

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20-21 October 2009
French-German Research Institute of Saint-Louis (ISL)**

REGISTRATION FORM

Please return this form before 1st July 2009, by Fax or E-mail, to :

Mrs. Isabelle METZGER,
Phone +33 3 89 69 51 94
Fax +33 3 89 69 51 93
Email : isabelle.metzger@isl.eu

Family Name :	First Name :
Date of birth :	Place of birth :
Nationality :	Email :
N° passport / id. card:	Date of expiration:
Affiliation :	Address :

I wish to (*) :

- ◇ participate in the OPTA Workshop
- ◇ participate in the dinner (evening 20th October 2009)
- ◇ give an oral presentation, with the title and list of authors :

PAYMENT OF REGISTRATION FEES (50€)

◇ With bank check (**), in euros, addressed to ISL.

◇ With bank transfer (**):

In France: Société Générale
IBAN : FR76 30003 02420 00050011807 32
BIC-SWIFT : SOGEFRPP

In Germany: Sparkasse Markgräflerland
IBAN: DE08 6835 1865 0007012081
BIC-SWIFT: SOLADES1MGL

(*) Tick the appropriate boxes.

(**) Please mention the participant name and the reference VE09040.