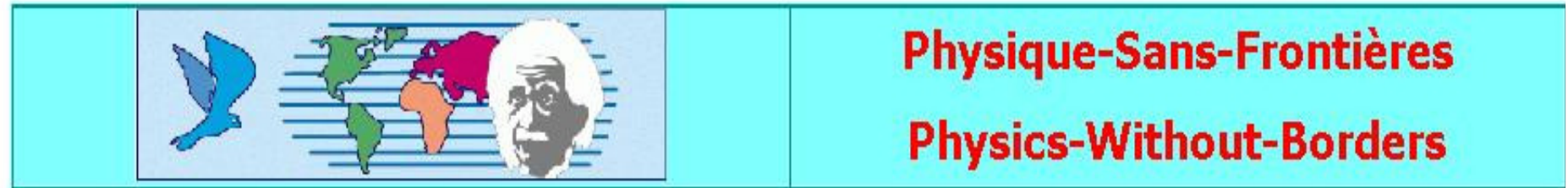


# THE FOUR SEAS HAVE LOST FRIENDS

After the tragic accident of last November the frontpage of our website was modified:



**Tragic news:** Our Turkish friends Engin **ARIK**, Engin **ABAT** & Bekol **DOGAN** from Bogazici university and Mustafa **FIDAN** from Dogus university were killed Friday Nov. 30, 2007 in the crash of the Istanbul- Ispara plane. This page is dedicated to their memory.

Click [here](#) for Herald Tribuna paper



Engin ARIK in Iasi-07



Egin ABAT and Bekol in Istanbul-04



Egin ABAT in Iasi-07



Bekol DOGAN in Iasi-07



Mustafa FIDAN

Prof. Engin ARIK participated actively in all the 4-Seas-Conferences (1995, 1998, 2002, 2004 in her university and 2007 in Iasi). We will never forget her smile and good mood, mainly in 2004 when she welcomed us in Bogazici University for a marvellous week. Her involvement in the PSF initiative and the 4-Seas-Conferences was deep and constant since 12 years. It is with the same deep sorrow that we learned of the death of her two young colleagues in the same crash, our friends Engin ABAT and Bekol Dogan. They were both very kind and so efficient in local organising team in 2004. A third one, Mustafa FIDAN, was from Dogus university. We had recently the great pleasure to welcome them again in Iasi in the fifth 4-Seas-Conference. All four were close friends !

**2007 : The Fours-Seas-Conference in IASI (Romania)**

**2004 : The Fours-Seas-Conference on Bosphorus (near Istanbul, Turkey)**

# Prof Engin Arik supported Physique-Sans-Frontières / Physics Without Borders and participated actively in the Four-Seas-Conferences since the beginning of the serie:

She was member if the International Advisory Committee



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**1995 TRIESTE JUNE 25-JULY 1, 1995**

**SISSA Auditorium** European Organization for Nuclear Research  
 International School for Advanced Studies  
 International Centre for Theoretical Physics

For further information, please contact the scientific secretariat:  
 Chantal Brodier, Paola Catapano, Vedrana Zorica  
 E-mail : fourseas@cernvm.cern.ch  
 Phone : (+41 22) 767.96.00  
 Fax : (+41 22) 767.87.80 or (+41 22) 767.87.10



**Her talk : CHORUS, a Neutrino CERN Experiment**



She kindly  
 Accepted to  
 continue for  
 the second  
 Conference  
 held in  
 Sarajevo  
 In 1998



# A WINDOW on SCIENCE

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# and TECHNOLOGIES

# The WEB-INTERNET

History of the Internet  
 Present status  
 Future of the WEB  
 Practical use of the WEB :  
 - in Physics  
 - in Medicine  
 - in Education  
 Particle Physics  
 Medical Physics  
 Astrophysics



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# S@r@jevo


**Summer School**  
**Physics Institute - University of Sarajevo**  
**29 September - 4 October 1998**

PHYSIQUE SANS FRONTIÈRES  
 PHYSICS WITHOUT BORDERS  
<http://p-s-f.org> Fax: +41227678940 e-mail: PSF1@compuserve.com




# In Thessaloniki, for the third session, Engin was participating actively

**FOUR SEAS CONFERENCE**  
**In Thessaloniki (Greece)**  
**16 - 21 April 2002**  
**Diakonia Centre of Thessaloniki**  
 65 Nik. Plastira Street



Physique-Sans-Frontières  
 Physics-Without-Borders



**AGio Oros**

**Meteora**

**Thessaloniki**

**Alexander the Great was born in the Thessaloniki area**

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Particle Physics : Recent experimental results, LHC programme, Trends in Particle Physics  
 Astro-Physics and Cosmology : Neutrino physics, Astro-Physics results and projects, Cosmology  
 Instrumentation & Particle Physics Spin-offs, Applications to Medicine ( Radiotherapy, Help to Diagnosis)

Sponsors : UNESCO, Roste, Venezia, UNESCO, République Française - Ministère des Affaires Étrangères Paris, DAPNIA - CEA Saclay, DESY Hamburg, PHYSIQUE-SANS-FRONTIÈRES Physics-Without-Borders

Contact : <http://www.p-s-f.org> fax: +41 22 767 89 40 Psf1@compuserve.com

She also revealed her talent for Balkanic dances...





- ...and accepted to host the next session of the Four-Seas-Conference in Bebek-Istanbul

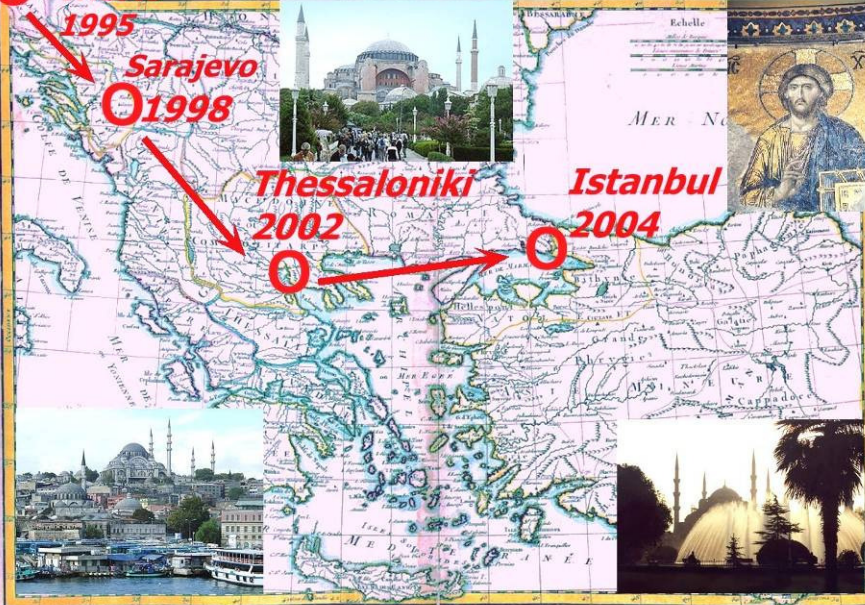
The 2004 session was held in the Bogazici University, perfectly organized by Engin and her team (Dogan Berkol & Engin Abat who disappeared also in the plane crash.

## FOUR SEAS CONFERENCE

in Istanbul - Bebek (Turkey)  
5 - 10 September 2004  
**BOGAZICI University**  
South Campus  
34342, Bebek, Istanbul

Physique-Sans-Frontières  
Physics-Without-Borders




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<=Engin Abat

<=Dogan Berkol





Local Organisation Team of Istanbul Conference



es Lemoigne

# The title of Engin Arik presentation was : Overview of Atlas experiment

She presented also videos of Atlas preparation.

Istanbul 4-Seas-Conference		Time Table		version 01/09/04	Yves LEMOIGNE
	Monday 6/9	Tuesday 7/9	Wednesday 8/9	Thursday 9/9	Friday 10/9
08:30	<b>Opening Session - Chair: E. Arik</b> 15 Welcome : The Rector 15 PSF presentation : Y.Lemoigne 15 From Thess to Ist : E. Gazis* 15 Unesco-Roste Dir : H. Moore Small break 15 Phys. Dep in Bogazici : O.Oguz 15 Med.Phys in Turkey : H. Bilge, Ist U. 15 P.P. activities in Turkey : E. Gulmez 15 The Scientific Week prog : D.D.	<b>Plenary Session 4 : P.P</b> <b>Particle Physics.1- Chair: R. Klanner</b> 30 Babar-Belle overview 30 The LHC project (D.Denegri, Saclay) 40 CMS overview (K.Hoepfner, Aachen) 20 CMS Tracker (M.Eppard, CERN)	<b>Plenary Session 6 : P.P</b> <b>Part. Physics.2- Chair: V.Ruhmann</b> 30 ATLAS overview (E.Arik, Istanbul) 25 LHCb overview (B. Spaan, Dresden) 30 RHIC results (D. Hofman, Chicago) 25 ALICE Overview (R.Schicker, Heidelberg) 25 Higgs at LHC, Tev (I.Puljak, Split)	<b>Plenary Session 8 : A.P</b> <b>Cosmology - Chair: D. Zavrtanik</b> 50 Cosmology review (M.Lachièze-Rey, Saclay) 35 WMAP, Planck, Archeops (J. Delabrouille, CDF Paris ) 35 Super Novae & Cosmology (N.Palanque, Saclay)	<b>Plenary Session 10 : A.P</b> <b>Neutrino Physics - Chair: E. Gulmez</b> 50 Exp v Review (J.Bouchez, Saclay) 35 Long Baselines (M.Messina, Zurich)* 25 Chorus v Results (A.M. Guler, Ankara)
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00	<b>Plenary Session 1 : A.P</b> <b>Exp. Results(1) - Chair: J. Bouchez</b> 45 New Planets (A.Brahic, Paris7) 35 Review of $\gamma$ exp (I.Grenier, Paris) 40 $\gamma$ Rays Bursts (L. Piro - Roma)	<b>Plenary Session 5 : M.P.A</b> <b>Medical Imaging - Chair: R. Ferrand</b> 45 PET camera (N. Walgraeve, Brugge) 45 Small Animal PET (T.Lahoutte, Brussels) 30 Qual. Assur. in RT (N.Samet, Chisinau)	<b>Plenary Session 7 : A.P</b> <b>Exp. Results (2) - Chair: L. Piro</b> 30 Auger (D.Zavrtanik, N.Gorica) 30 Underwater experiments (C. Rocco, Strasbourg) 20 Axions Searches (B.Lakic, Zagreb)	<b>Plenary Session 9 : M.P.A</b> <b>Radiotherapy - Chair: F. Deconinck</b> 40 Teletherapy (S.Barthold, Heidelberg) 30 Image guided RT (W.Schmidt, Wien) 25 HEP & Med.Phys. (Y.Lemoigne, Archamps) 25 IRES prog (D. Brasse, Strasbourg)	<b>Plenary Session 11 : P.P</b> <b>Future in P.P. - Chair: J. Ellis</b> 30 CP / CKM (T.M. Aliev, Ankara) 30 SUSY at LHC (E.Gazis, Athens) 30 Extra dimensions (D.Demir, Izmir) 30 Linear colliders (K.Mönig, DESY)
13:00	Lunch / Kennedy	Lunch / Kennedy	Lunch / Kennedy	Lunch / Kennedy	Lunch / Kennedy
14:15	<b>Plenary Session 2 : M.P.A</b> <b>Overview - Chair: B. Darican</b> 40 Intro to MP (F.Deconinck, Brussel) 40 The MRI Camera (A. Van der Linden, Antwerpen) 40 Hadrontherapy in practice (R.Ferrand, Orsay)	<b>Visiting Istanbul</b> 	<b>Technical Session 1</b> <b>P.P.</b> (Cf. next page) J.Tuominiemi (Fin) S. Sekmen (TR) C. Alexa (R) D.Gersanovski (FY) I. Borjanovic (YU) <b>M.P.A</b> (Cf. next page) B.Dirican (TR) J.Vassileva (BG) H.Bilge (TR) O.Ciraj (YU) A.Dimov (BG) D.Bulajic (YU)	<b>Visiting Istanbul</b> 	<b>Plenary Session 12 - Chair: D. Huss</b> <b>Links P.P - A.P. - M.P.A.</b> 25 EDMS (E. Manola, CERN) 25 Fast event select. (CE Wulz, Wien) 35 LHC-Grid (P.Eerola, Lund) 35 Health Grid (L.Maigne, Clermont-F)
16:15	Coffee Break		Coffee Break		Coffee Break
16:45	<b>Plenary Session 3 : P.P</b> <b>Exp. Results - Chair: J. Tuominiemi</b> 40 LEP Review (V.Ruhmann, Saclay) 40 Zeus, H1... (R. Klanner, DESY) 20 FNAL D0 Results (P. Padley, Rice U.) 20 FNAL CDF Results (S. Kartal, Istanbul) 19:30 WELCOME COCKTAIL at Kennedy L.	 19:00 Return to Bogazici (bus) or Free time in Istanbul (return by taxi)	<b>Technical Session 2</b> <b>P.P.</b> A. Cetin (TR) I. Riu (Ch) L.Litov (BG) S. Dita (R) K.Cankocak (TR) P.Milenovic (YU) <b>M.P.A+...</b> G. Abusan (R) A.Andreyev (UKR) M.Bodale (R) B.Petrovic (YU) C.M.Badea (R) S. Yildirim (TR) Round Table	 17:30 Boat trip on the Bosphorus 20:00 Conference Dinner along the Bosphorus	<b>Plenary Session 13</b> <b>Concluding session - Chair: C.E Wulz</b> 40 Physics Perspectiv. (J.Ellis, CERN) 25 S.E Europ collab (N.Koulberg, CERN) 30 Long Term CERN Pr. (J. Ellis), CERN) 15 Summary & Concl. (D.Denegri, Saclay)
19:00					

\*: To be Confirmed

# Three years after, in 2007, Engin was in Iasi to transmit the symbolic Four-Seas Flag From Istanbul to Iasi....

In the series of **FOUR SEAS CONFERENCES**

The Fifth Session will be held in Romania  
**From May 29 to June 3, 2007**  
**in IASI**

with help from : **Alexandru Ion CUZA University in IASI**

Local host : **Institute of Physics & Nuclear Engineering Magurele-Bucharest**

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 E. Arik (Istanbul, TR) ← **Red Arrow**  
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 \* Nobel Prize

**Topics (alphabetic order)**  
 Astrophysics, Cosmology, Neutrino : Results & Projects  
 Medical Physics: Radiotherapy, Imaging, Medical Computing  
 Particle Physics : Results, LHC Programme & Projects

**Contacts:** <http://www.psf2.org> e-mail: [psf1@compuserve.com](mailto:psf1@compuserve.com)



In Iasi, Egin was at the head of a kind and beautiful turkish delegation where we were happy to find our friends Dogan Berkol, Engin Abat and Mustafa Fidan...



Engin Arik Dancing



Yves Lemoigne 1/09/08



Mustafa

Engin Abat

Dogan



# In Iasi, Engin not only transmitted the “flag” but also presented “CAST”, the axions search experiment at CERN

Iasi 4-Seas-Conference		General Purpose		PRELIMINARY	version 23/05/07 Yves LEMOIGNE	
		A.P. = Astro-Physics & Astro-particle			Cultural Programme	
		M.P.A. = Medical Physics & Applications		P.P. = Particle Physics		
	MARDI 29/5/07	MERCREDI 30/5/07	JEUDI 31/5/07	VENDREDI 1/6/07	SAMEDI 2/6/07	DIMANCHE 3/6/07
08:30:	<b>Opening Session - Chair: G. Popa</b> - Welcome: A. Cuza university Rector - G.T.Popa university Rector - PSF presentation : Y.Lemoigne - A. Cuza international : H. Luchian - Unesco-Bresce : NN - Science Minister : A. Aldea Small break - From Istanbul to Iasi : E. Arık, Tr - Romanian Contrib. to CERN: N. Zane - Med. Physics in Romania: V. Leanca, R - The Scientific Week prog : D.Denegri.	<b>Plenary Session 3 : A.P.</b> <b>Exp. Results</b> == Cosmology review (M. Lachièze-Rey, Paris) == Underwater experiments (C.Racca, Strasbourg) == Particle overview (I. Petrovici, Bucarest)	<b>CULTURAL DAY</b> 8:30 Bus departure to Bucovina Monasteries	<b>Plenary Session 6 : A.P.</b> <b>Cosmology</b> == Super Novae & Dark Matter (J. Rich, Saclay-Fr) - LHC Mini Blackholes (S. Sekmen, Ankara-Tr) = Modelling Stringly Black Hole (I. Radinschi, Iasi, Ro) - CAST experiment (E. Arık, Istanbul-Tr)	<b>Plenary Session 8 : P.P</b> <b>Future in P.P</b> = New Physics before LHC (C. Diaconu, Bucharest / Marseille) = Susy theories at LHC (S. Kraml, CERN/ LPSC-Grenoble) = Susy experimental expectations (I. Borjanovic, Lecce, It) = Extra Dimensions (E. Dudas Orsay / Bucharest)	5:30 : Bus departure to Bucharest 6:45 Flight Departure to Bucharest 12:30 Optional visit of the Bucharest City
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:00	<b>Plenary Session 1 : M.P.A</b> <b>Overview</b> == Intro to MP (F. Deconinck, Brussel-Be) == Advances in Molecular Imaging (C-T. Chen, Chicago-USA) == Conventional Radiotherapy (J. Vanregemorter, Antwerpen-Be)	<b>Plenary Session 4 : P.P</b> <b>Particle Physics</b> = LHC-Atlas experiment overview (P.Jenni CERN-Geneva) = LHC-CMS experiment overview (C.E. Wulz, Vienna) = ATLAS trigger (I. Riu, Barcelona) - CMS-ECAL (N. Cartiglia, Torino, It) = Higgs theory (R. Hariander, Wuppertal-De) = Higgs @ LHC (D.Fassouliotis, Athens-Gr)	Voronej Monastery (Famous Voronej blue & Last judgment fresco)	<b>Plenary Session 7 : M.P</b> <b>Radiotherapy</b> == RT techniques in RIC (B. Dirican, Ankara-Tr) == Gynaecology Radiotherapy (N. Samet, Chisinau-MD) == Hadrontherapy (R. Cirio, INFN-Torino-It)	<b>Plenary Session 9</b> <b>Neutrino &amp; Ions Physics -</b> = RHIC results & Projects (G. Veres, Budapest-Hu) = Neutrino exp. Review (A. Paolini, Frascati-It) = Long Neutrino Baselines (A. Marchioni, ETH Zurich)	16:00 End of Visit
13:00	Lunch	Lunch	Pic-Nic	Lunch	Lunch	
14:30	<b>Plenary Session 2 : P.P</b> <b>Exp. Results &amp; Projects</b> = LHC & CERN programme Review (J. Ellis, CERN, Geneva-Ch) = HERA (DESY) programme Review (A. Geiser, DESY, Hamburg-De) = FNAL programme Review (D. Vilanova, Saclay-Fr) = Belle & Babar overview (M. Bracko Ljubljana-Si) = LHCb experiment overview (A. Schopper, CERN-Ch) = Standard Model @ LHC (W. Krasny, Paris-VI)	<b>Plenary Session 5 : M.P.</b> <b>Medical Imaging</b> == Small Animal PET (Y. Lemoigne, Archamps-Fr) == Pharmacokinetics in practice (M. Moulin, HCUGE,Geneva-Ch) == The Health GRID project (A. Fessy, Clermont-Ferrand-Fr)	Visit of Moldivitsa Monastery (Founded by Petru Rares in 1537) Humor Monastery (Founded in 1530)	<b>Technical Sessions</b> Medical Physics first speakers: C.M. Badea, Ro P. Trindev, BG N. Ozturk, BG S. Iliescu, It L. Muntean, Ro D. Neamtu, Ro D.Stoyanov, BG Z. Ghilulescu, Ro M.Bodale (Ro)	Particle & Astro-Physics first speakers: C. Alexa, Ro J. Dangov, BG N. Godinovic, Hr L. Litov, BG B. Ciobanu, Ro M. Djordjevic, Sx J. Grujic, Sx ...	<b>Plenary Session 10: Concluding Session</b> = ILC Project (A. Geiser, DESY-De) = LHC startup Scenario (J. Engelen, Dep. DG CERN) = First Physics in Atlas-CMS (E. Gazis, Athens-Gr) = Super-LHC & Conclusions (D. Denegri, Saclay-Fr)
17:30			Back to Iasi			
18:00	Cultural programme : History of Iasi and Romania	Visit of the Iasi City		Concert Philharmonia of Iasi	Visit of Wine Cotnari Caves	
19:30	<b>WELCOME PARTY</b>		<b>BANQUET</b>			
23:00					Departure by Train	



Talks of Medical Physics presented during the Technical sessions :

- 1-“Image Quality and Dose in Rx diagnostic” : Ghilulescu Zoe (Ro)
- 2-“Quality Control of Nuclear Medicine Equipment in Bulgaria – Present Status & Perspectives” : Trindev, P.(Bq)
- 3-“Photoelasticity method applied in biomechanics” : Mainuela-Codruta BADEA (Ro)
- 4-“Pneumonia measurement with a 2D pixel ionization chamber” : S. Iliescu (ItRo)
- 5-“Comparison of Four Protocols For Quality Control of Computed Tomography Systems” : Desislav Stoyanov (Bg)
- 6-“Quality Control of Mammography Units in Guigania” : S. Avramova-Chioakova
- 7-“The Influence of Variano Peak Values & Gaussian Approx. on Spatial Resolution Measur.” : N. Ozturk (BG/Tr)
- 8-“IMRT dose distribution verification with 2D measurement systems” : Mann Bodale (Ro)
- 9-“The Detection of Cerebral Aneurysms using MR Angiography” : M. L.Muntean M.D.(Ro)
- 10-“The nuclear medicine techniques’ role in hospital among other clinical diagnostic modalities” : D.Neamtu (Ro)

Talks of Astro- or Particle Physics presented during the Technical sessions :

- 1-“ATLAS-Tile Calorimeter” : C. Alexa (Ro)
- 2-“Efficient Calculation of Energy Expectation Values in the Path Integral Formalism” : Jelena Grujic (Serbia)
- 3-“Cherenkov detectors for muon/pion separation at CERN CMS test beam 2006” : M. Djordjevic (Serbia)
- 4-“CMS muon system” : Leandrar Litov (Bulgaria)
- 5-“CMS HCAL system” : J Dangov (Bulgaria)
- 6-“Spin of Higgs at LHC” : N. Godinovic (Croatia)
- 7-“Modelling the Stringly Black Hole Solutions” : B. Ciobanu\* (Ro)

- The whole team preparing the next year Four-Seas-Conference in Plovdiv (BG) is very sad to have to do that without the smile of **Engin Arik** and the kindness we appreciated in previous sessions of

- - Dogan Berkol

- - Engin Abat

- - Mustafa Fidan

- We deeply miss them !

