



ECOS Facility Meeting

MINUTES

DATE:	16/05/2013	OBJECT:	Facility Meeting – 2013/05/16
N/REF:	ENSAR-ECOS/2013.01	PLACE:	Orsay, France

INSTITUTION	IFJ PAN	CNRS	GSI	INFN	JYU	GANIL
PRESENT	B. Fornal N. Cieplicka	F. Azaiez D. Verney A. Said	D. Ackermann Y. Leifels U. Scheeler	D. Rifuggiato E. Fagotti	R. Julin P. Heikkinen	F. Chautard K. Turzó
EXCUSED	A. Maj			G. De Angelis		M. Lewitowicz
DISTRIBUTION:	PARTICIPANTS AND NON PARTICIPANTS					

INSTITUTION	Warsaw Univ.	Huelva Univ.				
PRESENT	P. Napiorkowski J. Jastrzebski	I. Martel A. Villari				
EXCUSED						
DISTRIBUTION:	PARTICIPANTS AND NON PARTICIPANTS					

N°	TOPIC	SPEAKER
1	<p><u>ALTO</u></p> <p>See corresponding presentation.</p> <p>^{14}C is used as powder source. One experiment was already performed with this source. ^{14}C: expected intensity = 100 nA</p> <p>Collaboration between Orsay and Legnaro for the beam development.</p> <p>In Legnaro, they develop a solid ^{14}C source with UCx. Problem: no company to produce it.</p> <p>UCx source in ALTO: 3 weeks of production. Price: 40k€.</p> <p>PAC: meeting once per year (chair: Rick Casten) Backlog = 3 months</p>	A. Said
2	<p><u>LNL</u></p> <p>See corresponding presentation.</p> <p>The Legnaro machines will be unavailable during 1,5 years from 2016 to 2017. Important for ENSAR2.</p> <p>Main problem: manpower.</p> <p>Political question: how many time dedicated to stable beams once SPES will be running? Some beam time will be dedicated to produce radioisotopes.</p> <p>PAC: meeting twice per year (chair: Santo Lunardi)</p>	E. Fagotti
3	<p><u>LNS</u></p> <p>See corresponding presentation.</p> <p>Total beam time: 270 + 85 + 60 BTU</p> <p>Applications: mainly radiobiology</p> <p>Proton therapy: 62 MeV (too low for Carbon therapy). 300 irradiated patients</p> <p>New project to be installed in a hospital in Catania (250 MeV protons)</p> <p>^{14}C: possible collaboration between LNS and IPNO</p> <p>PAC: meeting once per year (chair: Rémi Bougault) Backlog = 0 up to now.</p>	D. Rifuggiato
4	<p><u>IFJ PAN + HIL</u></p> <p>See corresponding presentation.</p> <p>Uranium target: also a possibility for fission studies at IFJ PAN</p> <p>First use of industrial cyclotron for fundamental nuclear physics? Usually used in</p>	B. Fornal

	<p>medical centres.</p> <p>Beam spot: 1cm vs 6 mm.</p> <p>Warsaw PAC: meeting twice per year Krakow: User Board that may evolve into a PAC</p>	
5	<p><u>JYFL</u></p> <p>See corresponding presentation.</p> <p>Students are running the accelerator during nights and weekends. The beam changes are done during weekdays by operators.</p> <p>The budget coming from commercial activities covers student salaries and other expenses.</p> <p>PAC: meeting twice per year (chair: Sean Freeman)</p>	P. Heikkinen
6	<p><u>GANIL</u></p> <p>See corresponding presentation.</p> <p>2013: about 3500 hours of beam time instead of 5000 hours</p> <p>Same system of micro-oven for metallic beams in Catania.</p> <p>Development of a Ti beam.</p> <p>PAC: meeting once per year</p>	F. Chautard
7	<p><u>Operation And Experiments At GSI</u></p> <p>See corresponding presentation.</p> <p>The patient treatment is done in Heidelberg. The GSI team is focusing now on fundamental research in biophysics.</p> <p>No beam time in 2013. 6 months foreseen in 2014 (mostly for FAIR developments)</p> <p>FLAIR: low energy anti-proton facility. Its synchrotron is currently built at GSI. Not completely financed.</p> <p>No clear future for FRS. Super-FRS will win in intensity in comparison with FRS.</p> <p>GSI All-PAC: meeting once per year (chair: Paolo Giubellino)</p>	U. Scheeler & Y. Leifels
8	<p><u>Discussion</u></p> <p>The community has to involved manpower in projects, shut down infrastructures and build new ones.</p> <p>Riken: only infrastructure currently fully available for stable and radioactive beams.</p> <p><u>How to enhance the quality of collaboration between infrastructures – ideas:</u></p> <ul style="list-style-type: none"> - Map of stable ion beams (in progress at GANIL) - Brochure on European facilities producing stable ion beams. This brochure will be available on NuPECC web site. Each lab will have to provide 2-3 ideas about 	all

	<p>accelerator activities on fundamental physics and 2-3 ideas about application activities.</p> <ul style="list-style-type: none">- Need to exchange of information in order to optimize work, to avoid duplicate developments. -> Forum on internet? A forum would help to get expertise in an easy way.- Workshop every 2 years to discuss issues (facility running, improvement of facilities with respect to science requests...). ECOS may organise the 1st workshop of this kind. This workshop would gather engineers and physicists. The workshop may be a natural continuation of the first facility meeting. The aim of this workshop should be underlined: the main subject should be improvements on the basis of requests.	
	<p><u>Question to participants</u></p> <p>Was it useful to come to the ECOS Facility Meeting? What could be improved?</p>	