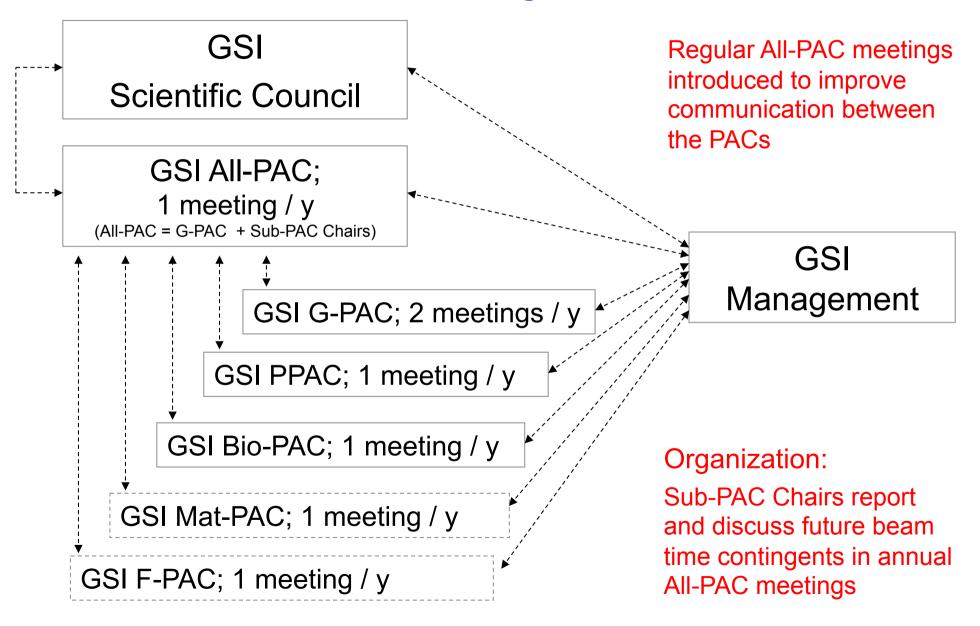
Evaluation of Experiment Proposals at GSI

W.N. Catford

1st ENSAR FCG Meeting, September 27th, 2011 Belgodere, France With thanks to: Andreas Tauschwitz, GSI

PAC Structure and Organization at GSI



General PAC (G-PAC)

Topics:

- Hadron and Nuclear Physics
- Atomic Physics
- Detector Tests (incl. tests for FAIR collaborations)

Members:

Bertram Blank CEN Bordeaux, France

Yorick Blumenfeld CERN-ISOLDE, Switzerland

Wilton Catford Univ. Surrey, UK Paolo Giubellino (Chair) IFNF Turin, Italy

Ronnie Hoekstra KVI Groningen; Netherlands

Stefan Leupold Uppsala Univ., Sweden

Norbert Pietralla TUD, Germany

Hendrik Schatz MSU, USA

Reinhold Schuch Stockholm Univ., Sweden

Andreas Türler PSI, Switzerland

Michiharu Wada RIKEN, Japan

Matthias Weidemüller Univ. Heidelberg, Germany

PHELIX and Plasmaphysics PAC (PPAC)

Topics:

- High Energy Density Physics
- EOS, phase transitions, and transport properties
- Heavy ion interaction with plasma
- Proton acceleration (imaging, injection in accelerator)
- High field physics

Members:

Sylvie Jacquemot LULI, Palaiseau, France

Grant Logan LBNL, Berkeley, USA

Gilles Maynard LPGP, Univ. Paris-Sud, France

Dieter Schneider, Chair LLNL-PAT/NIF, USA

Oswald Willi Univ. Düsseldorf, Germany

Biophysics and Radio-Biology PAC (Bio-PAC)

Topics:

- Biological radiation damage
- Therapy related research (clinical radiobiology, moving targets)
- Space-related research (biological effects)
- Modelling (physics and biology)
- Imaging and Dosimetry

Members:

Dudley Goodhead em. Director Med. Res. Council Rad. and Genome

Stability Unit, Oxford, UK

Thomas Haberer Heidelberg Ion-Beam Therapy Center (HIT), Germany

Amy Kronenberg LBNL, Berkeley, USA

Günther Reitz (Chair) German Aerospace Center (DLR), Germany

Laure Sabatier CEA, Fontenay-aux-Roses, France

Materials Research PAC (Mat-PAC)

Topics:

- Materials modification by ion beams
- Physics and technology of nanostructures
- Problems of radiation hardness

Members:

Pavel Apel Flerov Laboratory, Dubna, Russia

Serge Bouffard University of Caen, France

Klas Hjort University Uppsala, Sweden

Werner Wesch, Chair Universität Jena, Germany

Program Advisory Committee for FAIR-Related Beam Time Proposals (F-PAC)

Organization:

- F-PAC is an internal advisory committee
- The FAIR technical division and the FAIR collaborations are represented
- Proposals can be submitted any time (no calls or deadlines)
- Committee meetings are done as needed, at least once per year

Topics:

- Irradiation experiments for FAIR accelerator components
- Beam diagnostics and accelerator controls development for FAIR
- Beam lifetimes and charge exchange cross-sections of low-charged heavy ions

Members:

W. Müller CBM Collaboration, Technical Coordinator
L. Schmitt PANDA Collaboration, Technical Coordinator

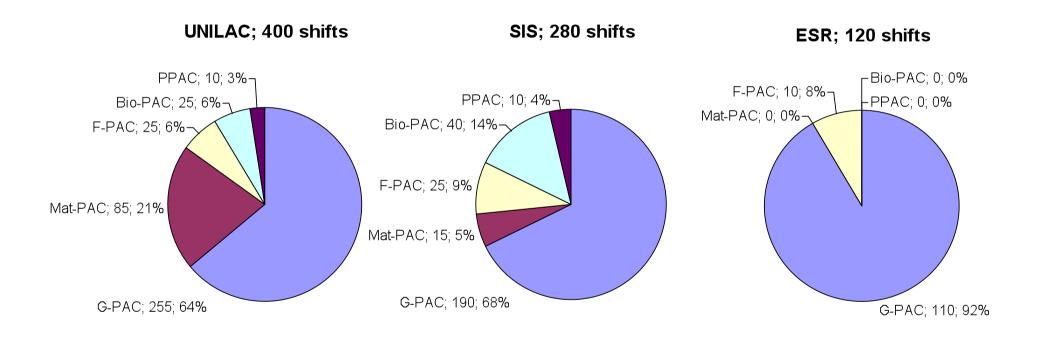
J. Stadlmann, Chair GSI, Synchrotrons Department

C. Trautmann GSI, Materials Research Department

H. Weick GSI, NUSTAR – FRS, Nuclear Structure

Beam Time Distribution between the PACs

Beam time shares are fixed in yearly All-PAC meetings



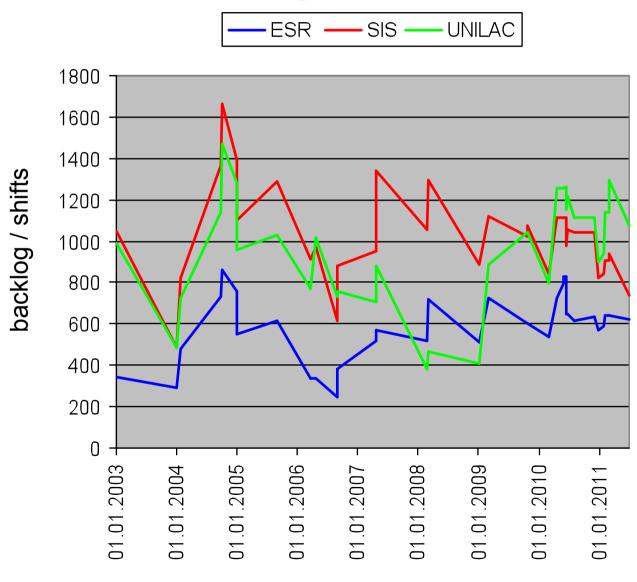
Estimated beam time availability per year in 8-hour shifts for experiments in the years 2012 and 2013. Additional 40 shifts/year at ESR are reserved for the commissioning of the ion trap facility HITRAP.

Backlog of Approved Beamtime

	total backlog (July 2010)	based on 2011-13 availabilities
UNILAC	1076 shifts	2,7 years
SIS	738 shifts	2,6 years
ESR	624 shifts	3,9 years
PHELIX	175 shifts	0,7 years

- The reduced availability of the facilities increases the average waiting time for experiments significantly
- Beam time quotas were reduced by 33% for the last round of PAC meetings (F-PAC, G-PAC, PPAC, Mat-PAC) in 2010
- New strategies for backlog reduction are necessary

Backlog Development



Classification of Proposals

Classification of Proposals in Categories

- A: 'must' be done;
- C: deferred;
- D: rejected

B-ranking (can be done if beamtime available) was abandoned in All-PAC01 since B-proposals will not be scheduled due to the large backlog of A-rated experiments.

- Experiments which are dormant are re-evaluated after three years
- Experiments which have had significant beamtime are asked for reports on the PAC meetings
- Short annual status reports are requested from all active experiments

Summary / Outlook

- Program Advisory Committees for different research areas evaluate and follow progress of experiment proposals
- The beam time shares of the different PACs are adjusted each year in All-PAC meetings
- Strategy for cutting-down backlog is required due to beamtime reduction in preparation for FAIR