

Dear friends and members of the former "CHEMSEP" and TASCA community:

Many very pleasant things happened since my last message. But before I outline some of these developments let me first draw your attention to the next and important **workshop**:



TASCA 05
will be held on campus of the **University of Oslo**, Norway,
on **October 06, 2005**.

More information is available at:

<http://www.gsi.de/TASCA05>

The TASCA 05 workshop follows the ESF Exploratory Workshop on the Chemistry and Physics of the Transactinide Elements, which will be held in very close vicinity of Oslo on October 02 – 05, 2005; see: <http://www.safe.uio.no/ESF-CTE05/>

In the TASCA 05 workshop we will discuss aspects related to:

- Heavy element separation in gas-filled separators
- Magnet designs and separator configurations
- Window and target designs for high intensity heavy-ion beams
- Windowless operation of gas-filled separators
- Detectors and data acquisition
 - α -, γ -, and conversion electron spectroscopy in the focal plane
 - in combination with chemistry experiments
- Nuclear structure and stability (half lives, decay modes)
- Nuclear reactions (fusion reactions, target-projectile combinations, cross sections, multi-nucleon transfer products,
- Achievements and perspectives in superheavy element chemistry

In addition, right NOW we start our request for "[Letters of Intent](#)" for TASCA experiments at the GSI – with "chemistry" behind TASCA, nuclear reaction or nuclear structure studies, separator related investigations etc.

Your "Letter of Intent" is for internal use of the TASCA community and for discussion in this community only. It will not go to the GSI "Experimentausschuss" (EA) where you finally have to request your beam time by sending in a proposal in due time. Even if many aspects may remain open at the moment finally it will help providing you with the required "environment and tools" for your envisioned experiment(s). All "Letters of Intent" which will arrive **before August 31** will be considered for presentation at the TASCA 05 workshop. Of course, submission will continue after this deadline.

A "Letter of Intent" can only be **submitted** in electronic form by using our web-site:

<http://www.gsi.de/tasca05>

I am looking forward with great pleasure to seeing many of you in Oslo.

Here is a quick report about current activities, and where to find more information:

The BGS at the 88-inch cyclotron is continuing operation with an exciting experimental program on nuclear aspects of the heaviest elements and on the chemistry of the heaviest elements combined with a recoil separator.

Beyond this, the best and most important information is about TASCA@GSI. This project – a gas-filled TransActinide Separator and Chemistry Apparatus (TASCA) - was not only recommended by the Scientific Council of GSI and was accepted by the directorate it also received funding already for 2005: **The TASCA project started.**

In about a month we will begin with our TASCA photo gallery on the web to give you some impression how TASCA is growing.

To get more information on the progress and on the actual status of this project and to find detailed contributions of the different task groups working on specific aspects in the preparation click "**TASCA@GSI - Task Groups**" on the homepage of our community <http://www.gsi.de/tasca>

This web-site provides you also with much more general information and with interesting links. Scientifically most interesting are presumably the contributions to the TASCA workshops; e.g. the TASCA 04 contributions can be found at: <http://www.gsi.de/tasca04>

Here are two more general remarks:

(i) We are not using the previous "CHEMSEP" terminology anymore because of the copyright problems which we discussed during the workshop in Berkeley.

(ii) Please, remember that you can find on the TASCA community web-site only the information which we get as an input from you :-). Do not hesitate to send us information from your group, laboratory, separator ... if this could be of interest for somebody else in the community; or send us the link to relevant information available on your web server. We originally planned to make the TASCA web-site a general forum to exchange all kinds of information in the community. If you have any comments, suggestions or criticism do not hesitate to send it to us: tasca@gsi.de

Here I like to thank "Gitta" Schausten for her work on the web sites. Gitta is frequently checking the tasca@gsi.de mailbox.

The TASCA 05 workshop in Oslo will be organized by Jon Petter Omtvedt (our local organizer), Andi Türlér, Dieter Ackermann and myself.
We are all looking forward to seeing you in Oslo!

Cheers,

Matthias