

LIC Advisory Committee Meeting

Date: Thursday, May 15, 2014

Time: 1:00 pm – 3:00 pm

Location: Chemistry, Room 329

Agenda

ACS Affiliates

Poster Printer – ACS affiliates - half goes to LIC and the other half goes to ACS affiliates.

Timeline – Purchase printers; fix one printer, computers set up.

Price evaluation – Medical School extremely competitive; Questions that still needed to be answered? Is our faculty enough to support printing?

Acknowledgements

Request information for NIH S10: The institution must also provide a Letter of Support that includes a table that provides information about instrument performance of all previous S10 awards for instruments awarded or installed within the past five years. The table should include: S10 grant number, year of award, PD/PI's name, generic name of instrument, current instrument status (i.e., in use, traded-in, transferred, non-functional), approximate hours used per year, status of maintenance agreement, and number of publications citing the S10 award. If the instrument is currently non-functional, the institution must provide a supplementary explanatory text.

For completion by Wayne State University: (Funding period 2009-2013)

Grant #	Award Year	PI/PD	Instrument	Status	Annual Usage (h)	Maintenance Agreement	No. of S10 Publications
S10RR027926-01	2010	Maddipati	Mass Spectrometer	In use	2508	Maintained in house with no downtime	13*
S10RR025550-01	2009	Stemmer	Mass Spectrometer	In Use	1000	Self maintained	3
S10OD010700-01A1	2012	Stemmer	Mass Spectro-meter	In Use	**2500	In warranty period	0***

*Not all authors complied with the requirement to acknowledge the grant support.

**This figure is annualized based on 800 hours and 4 months' activity

** This instrument went into service in December of 2013.

Plan of Action

Send out quarterly reminders to users and users of NSF grant instruments and Shimadzu Grant instrument.

Acknowledgement of Lumigen Instrument Center.

Proposals

Shimadzu Instrument Grant – Funded Instrument in use

NSF:MRI – Submitted Powder X-Ray Diffractometer

NIH:MRI – Submitted MALDI TOF TOF

Plan of action –

- 1) Leasing the instrument for 6 month, \$60,000 (expected end of June 2014). This lease comes with an option to purchase. The \$60,000 will be used toward a Bruker purchase. Both imaging and bacteria software available.

MS Laboratory Discussion

Pilot instruments

Shimadzu TQ 8040 – piloted and purchased

- 1) Ahn
- 2) Bhadgat
- 3) Kodanko

Working on methods for

- 1) Shawn McElmurray
- 2) NOAA – cyanotoxins

Shimadzu MALDI TOF (survey –did not fare well, returned instrument)

ICP-MS 7700x (Last week in June)

- 1) Delivered last week in June
- 2) List of users
 - a. Jeff Howard
 - b. Matt Allen
 - c. Parry Hashemi
 - d. Stephanie Brock
 - e. Century Chemical
 - f. Shawn McElmurray
 - g. Mark Baskaran
 - h. *Christine Chow*

X-Ray Laboratory

Bruker AXS – currently having problems. Dr. Martin is in contact with Bruker.

Phaser II Purchased March 2014:

- 1) Brock
- 2) Winter
- 3) Putatunda - engineering

NMR Laboratory

No new instruments.

Announce the formation of a NMR Subcommittee to review current policy, procedures, and training and to help draft new policy, procedures and training.

Steps taken.

- 1) Distribution Questionnaire (below)
- 2) Email PI's to volunteer for subcommittee and looking for a committee member that does not use the NMR.
- 3) Dropbox is being filled.
- 4) Draft discussion topics (below).

Questionnaire

1. Is your use primarily:

Submitted samples

Walk-up operation

Both

2. Please rate this core facility's instrumentation.

Ease of scheduling

Excellent	Good	OK	Subpar	Poor	N/A
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Instrument availability

Excellent	Good	OK	Subpar	Poor	N/A
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Operating condition of instruments

Excellent	Good	OK	Subpar	Poor	N/A
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Instrumentation is up-to-date

Excellent	Good	OK	Subpar	Poor	N/A
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Availability of training

Excellent	Good	OK	Subpar	Poor	N/A
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3. Please rate the core on its services.

Process to request services

Excellent	Good	OK	Subpar	Poor	N/A
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Provision of services when promised

Excellent	Good	OK	Subpar	Poor	N/A
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Quality of the services received

Excellent	Good	OK	Subpar	Poor	N/A
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4. Please rate the core's staff and facilities.

Accessibility/responsiveness of the staff

Excellent	Good	OK	Subpar	Poor	N/A
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Availability of expertise in experimental design

Excellent	Good	OK	Subpar	Poor	N/A
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Knowledge of the staff in resolving technical issues

Excellent	Good	OK	Subpar	Poor	N/A
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5. Please provide your opinion on the costs of using the core.

User fees

Excellent	Good	OK	Subpar	Poor	N/A
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Costs of services

Excellent	Good	OK	Subpar	Poor	N/A
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6. Please give us your overall rating of this core.

Overall rating

Excellent	Good	OK	Subpar	Poor	N/A
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7. What other services or instrumentation would you like to see at this core?

8. Do you plan to use this core facility in the future?

Yes

No

9. Please provide additional comments of your experience with the Core's service.

NMR Subcommittee Topics:

- 1) Discrepancies with Instrument time vs log in time.
- 2) Procedure for problems at night. – Billing hours and logged in still accruing time.
- 3) How much time can be permitted per use? How frequently?
- 4) Training – discussion
 - a. One basic course and others design for projects
 - b. VT basic course
 - c. Schedules posted one month before semester starts.
 - d. Only proficient on the nuclei for projects (some students only use one nuclei)
 - e. Instrument student permit until ready to take test or after course, 4 hours per day available to help students practicing.
 - f. Cost per group – Training fee, charge based on group attendance (same price whether one attends or 5. (\$225). This fee includes basic instrument trouble-shooting.
- 5) VT training, VT usage, how to trouble-shoot problems.
- 6) One 400 NMR for undergraduate research and course. (flat fee \$100 per lab) (suggestion)
- 7) Scheduled Service and Maintenance.
- 8) Consequences to not following rules.
- 9) Training schedules and courses. (Outline)
- 10) Review all instrument usage policies.
 - a. If one instrument is being used another one can't be use? Example 500 to 600 rule.
- 11) Make a table with each of the NMR capabilities.
- 12) A400 (the 400 MHz NMR in the back corner that barely anyone uses) does have all the 2D NMR capability. The only 400 that doesn't have all the 2D NMR capabilities is the Mercury 400 which is the oldest one - the one in the middle corner

Open Discussion