Laboratory Design Best Practices: Modules A and B

A distance learning opportunity

September 5 and 12, 2019
12:00 – 2:30pm (CDT)

Laboratory Design Best Practices is intended to offer an understanding of the activities that should be carried out prior to the commencement of the design process for a laboratory facility. The goal is to support architects, designers and biosafety professionals that are unfamiliar with what exactly it is that makes laboratory design a challenge and what it takes to make it a success. This webinar offers an understanding of key principles underlying the design of research and diagnostics laboratories. Module A will review the components of a design process. The basic concepts of conducting user interviews, setting goals for the project, recording program information, diagramming important relationships, and establishing the facility criteria that will form the basis for the design and budget of a laboratory facility will be discussed. Following the completion of Module A, participants for Module B will be introduced to laboratory design best practices as they relate to: building zoning, operational efficiency, biosafety and biosecurity factors, supporting good lab protocols and flexibility. This webinar takes students through the process of developing a conceptual laboratory design from a functional space program, and it offers a basic understanding of the systems required to support a typical laboratory, how these influence facility design, and how specialized systems enhance biosafety and biosecurity.

The goal of this webinar is to increase student's awareness of laboratory design issues and analytical processes that are critical for developing laboratory layouts, and to provide examples of well-designed laboratory buildings and spaces relying on international best practices. The course is intended for those who want to be able to lead or aid in the creation of safe and efficient laboratory designs.

This webinar will be a 2-hour webinar session on Thursday, September 5 and 12, 2019 at 12:00pm CDT. For the webinar, you should plan on logging in at 11:45 am (CDT) on September 5 and 12. You are required to fill in a questionnaire about your background and experience with design and construction two days in advance of the first webinar, and attend the webinar sessions. You are required to attend the webinar session, complete the pre and post assessments, and evaluation in order to earn P.A.C.E® Contact Hours*. The link in the invitation will be unique to the user and cannot be shared.

Upon completion of this webinar, participants will be able to:

Institutional homework, roles and responsibilities

• Plan ahead and collect the critical pre-design information appropriate to the development of a laboratory facility
• Understand methods for developing, analyzing and improving laboratory designs
• Analyze projects, the critical paths and decide what stakeholder involvement is crucial at what time
• Describe the critical factors that should be examined when developing or analyzing a laboratory design to ensure a successfully operating facility
• Aid in gathering the information required by architects and engineers to design their systems
• Produce a laboratory organizational diagram based upon consideration of safety, security and operational concerns
• Analyze a variety of efficient laboratory organization strategies
• Discuss, analyze, and develop laboratory plans
• Provide constructive criticism, based on their knowledge of critical design drivers, to others developing laboratory designs

Flows & zoning

• Describe how material and personnel flows, biosafety concerns and biosecurity concerns shape a laboratory facility
• Produce diagrams that explain how a laboratory plan works in terms of personnel and material flows, containment concepts and security zoning

Safety and security

• Restate how functional and safety concerns shape the layout of equipment within a laboratory or animal room
• Identify areas where design can enhance biosafety and biosecurity
• Develop diagrams that identify biosafety and biosecurity features, how a laboratory plan works in terms of personnel and material flows describe containment concepts and security zoning and distribution concepts
• Recall how functional and safety concerns shape the layout of equipment within a laboratory or animal room
• Describe how building systems can be used to enhance biosafety and biosecurity and how they are affected by biosafety concerns and other critical factors that need to be considered when developing or analyzing system distribution and system zoning

Design

• Describe principles of good laboratory design and how good design practices work to enhance both biosafety and biosecurity
• Contribute to the design discussions of laboratory facilities
• Produce a conceptual laboratory plan based upon safety security and operational concerns
• Produce a laboratory organizational diagram and a conceptual laboratory plan based upon consideration of safety, security and operational concerns
• Restate the principles of good laboratory design and the unique features of laboratories that influence building system designs
The webinar will be presented by Vibeke Halkjaer-Knudsen, PhD, Distinguished Member of the Technical Staff, Sandia National Laboratories, Albuquerque, NM and William D. Arndt, PhD, Centers for Disease Control and Prevention, Atlanta, GA.

Disclaimer: Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy’s National Nuclear Security Administration under contract DE-NA0003525

WHO SHOULD ATTEND
- Architects, designers and biosafety professionals

COURSE FEES

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In order to obtain the ABSA member rate, the participant will need to be an ABSA member in the year in which the training is offered. Course fees include: course handouts, access to the ABSA International Training Site, and 5-hours of interactive instruction from a well-respected subject matter experts.

Group Discount: For all registration discounts, participants must be from the same organization: 10% off each registration for 3-4 participants; 20% off each registration for 5-9 participants; 30% off each registration for 10 or more participants. Please call the ABSA Office to register your group.

QUESTIONS
Please direct questions about this course to:
KariAnn DeServio, Director of Education, ABSA Office, 866.425.1385 (toll free) | Email: education@absa.org

This course has been approved for 0.75 CM point toward RBP/CBSP recertification. *ABSA International is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. This course is approved for 6.0 P.A.C.E.® contact hours. The links to the various invitations for the course will be unique to the user and cannot be shared. The links are for single, individual use only. If more than one occurrence of an individual’s name is on the attendee list for the webinar through Go To Webinar, all instances of that person’s name will be removed from the webinar with no refund. The webinar and its associated links are for single, individual use only.*
Registration Form
Laboratory Design Best Practices: Modules A and B

*Name (First, Middle Initial, Last): ____________________________________________

Affiliation: ________________________________________________________________

*Address: __________________________________________________________________

*City, State: Country: Zip/Postal Code: _________________________________________

*Telephone: __________________________________________________________________

*E-mail: ____________________________________________________________________
(Please provide your preferred email address, which you frequently access)

*Required information

Payment:

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____10% off each registration for 3-4 participants from the same organization
____20% off each registration for 5-9 participants from the same organization
____30% off each registration for 10 or more participants from the same organization

For the group discount, please attach an additional note with the additional participants name, email address, and phone number.

Check enclosed (drawn in a US Bank on US funds; made payable to ABSA International)

______Visa  _______ MasterCard  _______ American Express

Card Number: ________________________________________________________________
Expiration Date: _____________________________________________________________
Name on card: ______________________________________________________________

In order to obtain the ABSA member rate, the participant will need to be an ABSA member in the year in which the training is offered. Confirmed, paid participants will be sent detailed information regarding the course within the week of the course. Substitutions allowed with notice by 8/15/2019. There is a 15% processing fee for cancellations prior to 8/15/2019. Cancellations between 8/15/2019 and 8/22/2019 will be refunded at 50% of the course fee. No refunds after 8/22/2019.

The links to the various invitations for the course will be unique to the user and cannot be shared. The links are for single, individual use only. If more than one occurrence of an individual’s name is on the attendee list for the webinar through Go To Webinar all instances of that person’s name will be removed from the webinar with no refund. The webinar and its associated links are for single, individual use only.

Register by mail or fax:  or On-line:
ABSA International  http://www.absa.org/
1200 Allanson Road
Mundelein, IL  60060
Phone: (847)949-1517
Fax: (847)566-4580
E-mail: info@absa.org