

Schedule

RIKEN/RBRC

Itaru Nakagawa

Beginnings

At the beginning of the run, all detector low voltage power, high voltage power, gas, and cooling should be brought to their operating points so that any detector can be tested during the commissioning period. Thanks to the design of the readout electronics which allows partitioning of the detector into sub-detectors which can be configured and operated independently, all the detector groups will be attempting to test their detectors from the outset of the commissioning period. However, as the commissioning progresses, individual detectors will be the main priority during their specific commissioning periods.

- April 11 Watch shifts begin
- April 14 BHSO approves sPHENIX operation
- April 17 Begin operation (power, water, Global Interlocks in run state)
- April 24 Blue 4K wave
- April 26 Close shield wall (guesstimate)
- April 27 Begin working with beams in RHIC

Conceptual design of commissioning

- We start at low luminosity
- In each week of commissioning, we emphasize one detector, but all detectors should be trying to exercise their systems in whatever way is possible (clock triggers, random triggers, cosmic ray triggers, beam triggers)
 - This will require a continuing and daily negotiation for assistance with electronics and software
- First 2 weeks are primarily the MBD and MBD trigger development
- I expect we will need weekly maintenance periods of at least 24 hours

C-AD guidance (from BUP)

“The guidance from C-AD is that there is a 0.5 week “cool down from 50 K to 4 K”, then a 2.0 week “set-up mode” for the specific collision species, and then a 0.5 week “ramp-up”. If switching species, there is again a 2.0 week “set-up” and 0.5 week “ramp-up”. Lastly, at the end of the running period, there is a 0.5 “warm-up from 4 K to 50 K”. In addition, we assume that in the first, second and third weeks of declared Physics Running, one achieves 25%, 50%, and then 75% of the luminosity target, with subsequent weeks at 100%. These are standard assumptions following C-AD guidance. “

Beam operation

Week	RHIC	sPHENIX	Result
1	No beam	Magnet cool-down and ramp	Magnet at full field
2	6 bunches, 0 crossing angle, 200 GeV Au+Au, collision rate 2 kHz	Take data with MBD; set up MB trigger	z vertex distribution, MBDLL1 operational; other detectors begin to energize
4	6 bunches, 0 crossing angle, 200 GeV Au+Au, collision rate 2 kHz	Begin operating calorimeters, TPC	Assemble Big partition; event displays
6	6 bunches, 2mr crossing angle, 200 GeV Au+Au, collision rate 2 kHz	Take data with nominal low luminosity conditions; zero field run	First slug of data analyzed at RCF
8	111 bunches, 0 mr crossing angle, 200 GeV Au+Au, 1-5 kHz	Take data with luminosity approaching design	Stress test DAQ, measure radiation environment
10	111 bunches, 2 mr crossing angle, 200 GeV Au+Au, 5-15 kHz	Attempt full operation	Detector monitoring operational
12	Begin Physics data taking (111, 2mr, 200 GeV Au+Au, 20 kHz)	Physics data taking	
24 (27)	End of run		

Opening first block of shifts for sign-up: April 25 – June 27

- <https://www.sphenix.bnl.gov/ShiftSignupRun1/>

SPHENIX Shift Signup Run 2023

(1) To Signup: First select your Institution and Name, then choose a signup sheet
(2) To view schedules: choose a signup sheet

--- Institutions --- People ---

Compact menu Sign-up Sheets: Experiment Operations OR Shift Table: reduced view

PDF::TODAY Institutions Graphs Controls

Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Apr 11th - Apr 18th		0:00-8:00	<u>Ejiro Umaka</u> Brookhaven National Laboratory	<u>Anthony Hodges</u> University of Illinois, Urbana-Champaign		
		8:00-16:00	<u>Virginia Bailey</u> University of Illinois, Urbana-Champaign	<u>Daniel Richford</u> Baruch College, CUNY		
		16:00-00:00	<u>Oliver Suranyi</u> Baruch College, CUNY	<u>Daniel Lis</u> University of Colorado, Boulder		
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
		0:00-8:00	<u>Charles Hughes</u> Iowa State University	<u>Joseph Clement</u> University of Colorado, Boulder		

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Compact menu

Sign-up Sheets: Experiment Operations OR Shift Table: reduced view

PDF::TODAY

Institutions

Graphs

Controls

Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
May 30th - Jun 6th		0:00-8:00		<u>Silas Grossberndt</u> Baruch College, CUNY		
		8:00-16:00	<u>Christopher McGinn</u> University of Colorado, Boulder	<u>Apurva Narde</u> University of Illinois, Urbana-Champaign		
		16:00-00:00	<u>Yeonju Go</u> University of Colorado, Boulder	<u>Anders Knospe</u> Lehigh University		
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Jun 6th - Jun 13th		0:00-8:00		<u>Thomas Marshall</u> University of California, Los Angeles		
		8:00-16:00	<u>Itaru Nakagawa</u> RIKEN	<u>Wei Xie</u> Purdue University		
		16:00-00:00	<u>Rosi Reed</u> Lehigh University	<u>Megan Connors</u> Georgia State University		
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
Jun 13th - Jun 20th		0:00-8:00		<u>Thomas Marshall</u> University of California, Los Angeles		
		8:00-16:00	<u>Ralf Seidl</u> RIKEN	<u>Maya Shimomura</u> Nara Women's University		
		16:00-00:00	<u>Marzia Rosati</u> Iowa State University	<u>Megan Connors</u> Georgia State University		
Week	Period Coord.	Shift	Shift Leader	Detector Opr.	DAQ Opr.	Data Monitor Opr
		0:00-8:00		<u>Athira Vijayakumar</u> University of Illinois, Urbana-Champaign		

Loc out Tag out Class Room Training

Course List Course Calendar Course Type: Compliance Training

« previous March 2023 next »

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Cardiopulmonary Resuscitation (Adult CPR/AED) Contractor/Vendor Orientation Training Fire Extinguisher Safety - Hands-on Practical Lockout/Tagout Authorized Worker 9 a.m. to 12 p.m. Virtual. E-mail will be sent with link after registration. Registration Submitted	2	3 Contractor/Vendor Orientation Training	4
5	6 Contractor/Vendor Orientation Training	7 Qualified Electrical Worker 1 RadWorker I Final (Part 2 Classroom Portion)	8 Contamination Practical Contamination, High Cont. and Airborne Areas Contractor/Vendor Orientation Training	9 Confined Space Entry Work Planning & Control: An Introduction	10 Basic Rigging Contractor/Vendor Orientation Training	11
12	13 Contractor/Vendor Orientation Training Principles of Work Oversight	14 Davis Bacon Qualified Electrical Worker 2	15 Contractor/Vendor Orientation Training	16 Fall Protection (part 1) Radiological Worker I (Full Day)	17 Contractor/Vendor Orientation Training	18
19	20 Contractor/Vendor Orientation Training Principles of Work Oversight	21 Lockout/Tagout Authorized Worker	22 Contractor/Vendor Orientation Training	23 Cardiopulmonary Resuscitation (Adult CPR/AED)	24 Contractor/Vendor Orientation Training	25
26	27 Contractor/Vendor Orientation Training	28 Hazard Identification RadWorker I Final (Part 2 Classroom Portion)	29 Contamination Practical Contamination, High Cont. and Airborne Areas Contractor/Vendor Orientation Training	30	31 Contractor/Vendor Orientation Training	

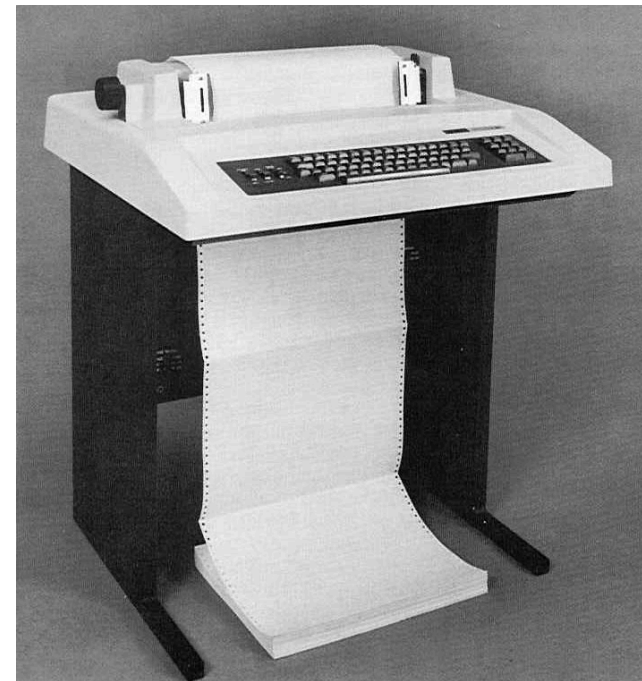
Commissioning Workfest

Dear sPHENIX colleagues,

After the poll and the discussion in the software meeting today, it appears that the week of March 13th is the best option for a workfest. Therefore, we will plan to hold another workfest to prepare for commissioning at Brookhaven National Laboratory from Monday, March 13th, to Friday, March 17th. An indico page has been created at the link below. Please register in the next several weeks so that we can determine how many rooms need to be reserved.

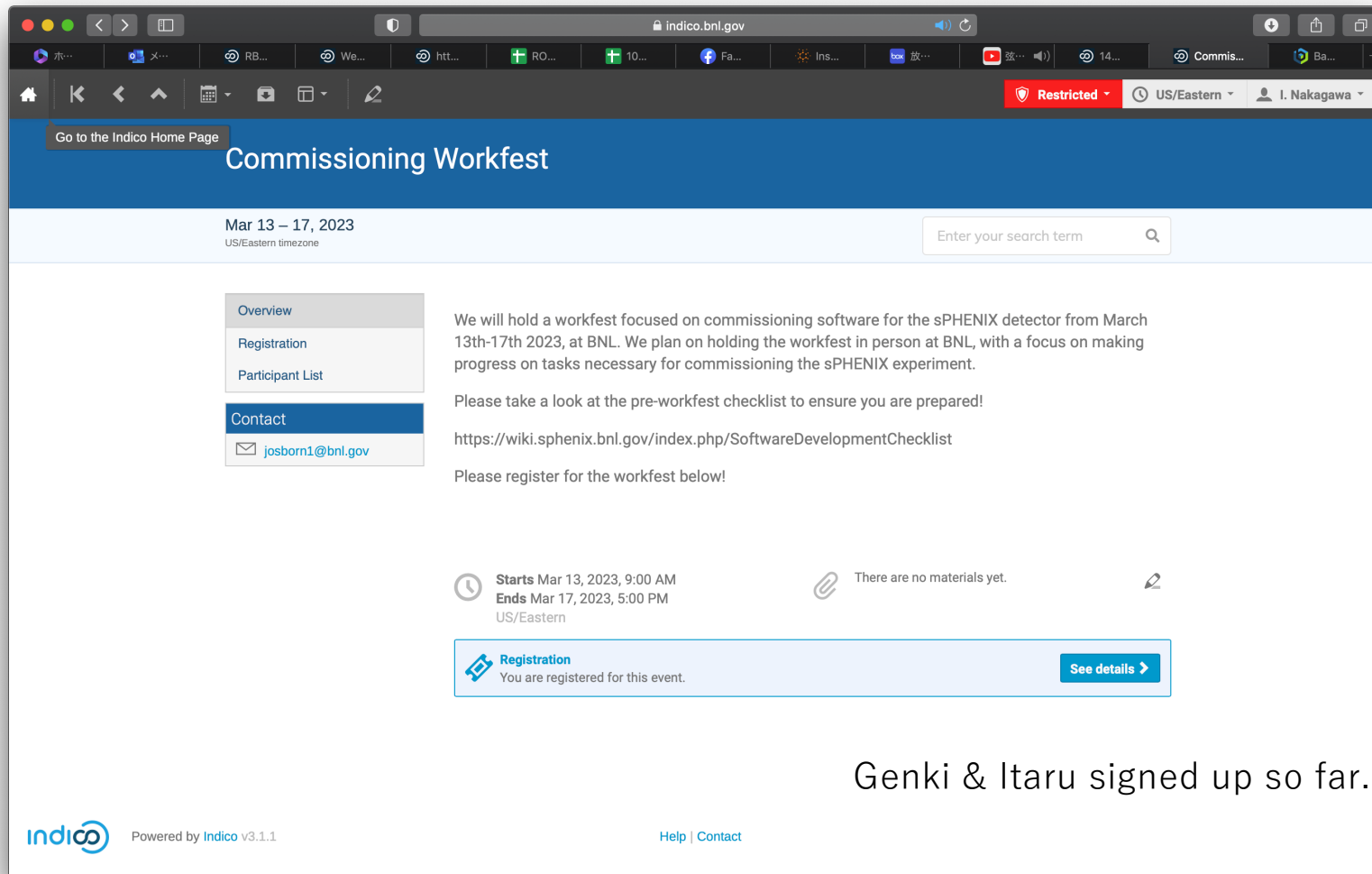
<https://indico.bnl.gov/event/18111/>

Joe Osborn



DEC LA36 DECwriter II Terminal
Columbia University, 1974

Commissioning Workfest Indico Page



The screenshot shows a web browser window displaying the Indico page for the Commissioning Workfest. The browser's address bar shows 'indico.bnl.gov'. The page has a blue header with the title 'Commissioning Workfest' and a sub-header 'Mar 13 – 17, 2023 US/Eastern timezone'. A search bar is located on the right. On the left, there is a sidebar with links: 'Overview', 'Registration', 'Participant List', and 'Contact' (which is highlighted). Below the sidebar, the main content area contains a paragraph about the workfest, a pre-workfest checklist link, and a registration button. At the bottom, there is a registration status box indicating 'You are registered for this event.' and a 'See details' button. The footer includes the Indico logo, 'Powered by Indico v3.1.1', and links for 'Help' and 'Contact'.

Go to the Indico Home Page

Commissioning Workfest

Mar 13 – 17, 2023
US/Eastern timezone

Enter your search term

- Overview
- Registration
- Participant List
- Contact**

josborn1@bnl.gov

We will hold a workfest focused on commissioning software for the sPHENIX detector from March 13th-17th 2023, at BNL. We plan on holding the workfest in person at BNL, with a focus on making progress on tasks necessary for commissioning the sPHENIX experiment.

Please take a look at the pre-workfest checklist to ensure you are prepared!

<https://wiki.sphenix.bnl.gov/index.php/SoftwareDevelopmentChecklist>

Please register for the workfest below!

Starts Mar 13, 2023, 9:00 AM
Ends Mar 17, 2023, 5:00 PM
US/Eastern

There are no materials yet.

Registration
You are registered for this event. [See details >](#)

Genki & Itaru signed up so far.

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Production Conversion Cables

Delivered	AC-Type	BD-Type
15cm Conversion Cable	56 + (10)	56 + (10)
25cm μ -Coax Harness	48 bundles (1 CC/ROC)	48 bundles (1 CC/ROC)
GND/Power Cables	64 cables (1 CC/ROC)	64 cables (1 CC/ROC)
GND/Power Lock Cover	30	

New Order Plan	AC-Type	BD-Type
25cm μ -Coax Harness	75 bundles (1.5 CC/ROC)	75 bundles (1.5 CC/ROC)
GND/Power Cables	100 cables (1.5 CC/ROC)	100 cables (1.5 CC/ROC)

- 15 Total Conversion Cables were used so far ($\sim 0.5/\text{ROC}$).
- There are still $0.5/\text{ROC}$ available + additional spares $1.5/\text{ROC}$.
- Expected delivery on March 3rd or 6th 2023.