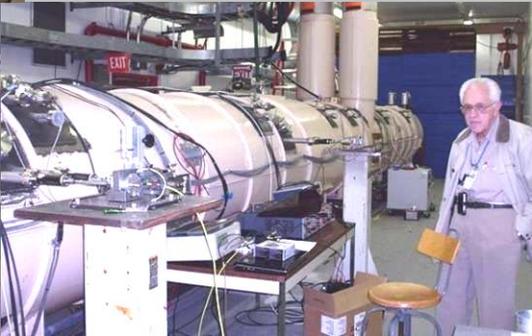
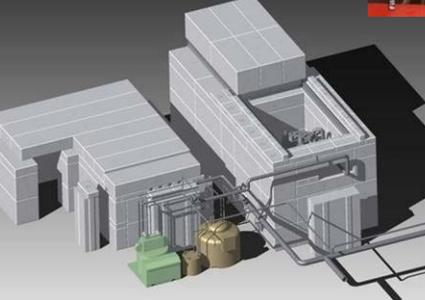
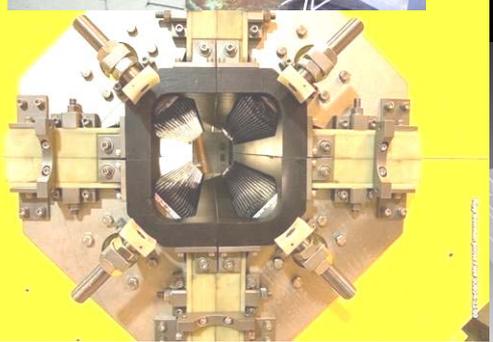
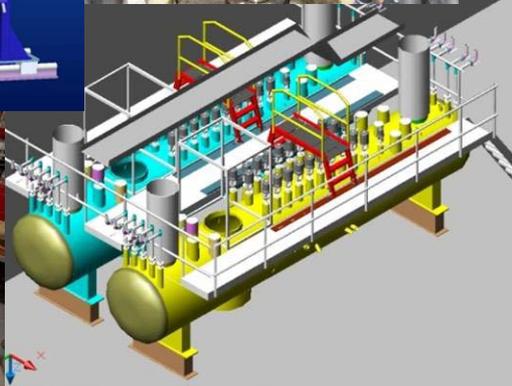
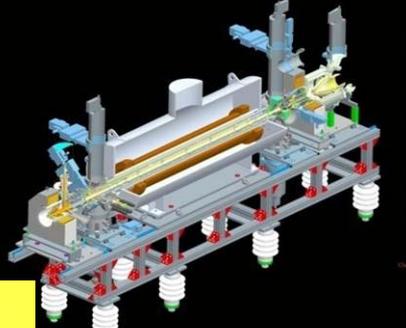
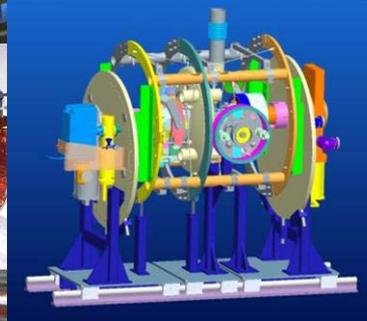


Presentation Outline

- Mechanical Engineering Support
 - Shutdown and ongoing projects
- Mechanical Engineer Staff
- Design Room
- Building Program if time allows.



Vacuum Systems
4 ME's

Cryogenic Systems
4 ME's + 1 req.

Mechanical Systems
10 + 1 ME's

Facilities & Exp.
2 ME's + 1 req.

A L D - S. Vigdor

18004

COLLIDER-ACCELERATOR DEPARTMENT

D.I. Lowenstein, Chairman
T. Roser, Associate Chair for Accelerators
P. Pile, Associate Chair for Experimental Support & Facilities
I. Ben-Zvi, Associate Chair for Superconducting Accelerator R&D
E. Lessard, Associate Chair for ESSHQ
S. LaMontagne, Assistant Chair for Administration
J. Sandberg, Chief E.E.
J. Tuozzolo, Chief M.E.
M. Heimerle, Administrative Specialist
S. Blas, Secretary
(C. Meyer), Secretary

ELECTRON BEAM SOURCE
(EBS) Project
(A. Alessi), GL

ACCELERATOR DIVISION
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S. Blas, Deputy
A. Patway, Div. Secretary
(S. Asaletti), Secretary
(L. DiFilippo), Secretary

EXPERIMENTAL SUPPORT & FACILITIES DIVISION
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(Y. Makdisi), Deputy
P. Manning, Div. Secretary

18005
ADMINISTRATIVE GROUP
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M. Govgin, Secretary
Budget & Accounting
S. Pankowski, GL
B. Heisterkamp
N. Boyle
C. Manolo
R. Trevis (MD)
M. Wiener
Administration
A. Lamberto, GL
S. Babko
S. Castro
Project Management
K. Mirabella, GL
R. VanWarmer
Facilities
P. Sparrow, TS
B. Weatherill (SM)
S. Williams (SM)
Library
S. Kuczewski (SD), Librarian

18031
Accelerator Physics
(J. Sandberg), Head
V. Litvinenko, Head
D. Trbojevic, Dep.
(A. Patway), Secretary
(L. DiFilippo), Secretary
Physics
Y. Ito
(L. Hammons+)
D. Kayran
W. MacKay
(P. Maitlan)
E. Pozdeyev
(G. Wang)
S. Webb+
Collider
(D. Trbojevic), GL
M. Bai
J. Adessi
K. Hartmann
S. Perlstein
Y. Tan
R. Zepasek, TS
J. Adessi
M. Kasper
K. Hartmann
S. Perlstein
J. Mingos
I. Ahrens, GL
(K.A. Brown)
C. Gardner
J.W. Glenn
H. Huang
Operations
Analysis
T. Sotgiato, GL
A. Drees
R. Kurz
T. Nolin
F. Orsatti
E. Dykout
J. Wike
Injectors
M. Jaccoben
D. Bruno, GL
C. Mi
Magnet Protection
(R. Zepasek), TS
G. Gonetts (LS II)
O. Bangbose
M. DeLa Vergne
W. Louis (LS II)

18032
Machine Operations
F. Pilet, Head
(L. DiFilippo), Secretary
Main Control Room
L. Hammons, Dep.
Machine Specialists
G. Mori
J. Guercio
S. Tsuchi
H. Polocinski, LOA
Coordinators
I. Blocker
N. Kling
M. Laffay
C. Naylor
T. Shroy
B. van Kuik
Operators
S. Everts
W. Jaccoben
J. Jaccoben
D. Marfil
R. Martin
R. Conolly
R. Paris
Y. Smith
Y. Zhang
C. Zimmer
Maintenance Support
P. Sampson, GL
R. Zaharatos
J. Benetta

18033
RF
A. Zaitman, GL
K. Smith, Dep.
(A. Patway), Secretary
(M. Blasiewicz) N. Lalouadias, TS
M. Harvey
J. Butler, Dep.
F. Severino
S. Donorfine
T. Hayes
S. Farooq
S. Polizzo
D. Goldberg
S. Tuohi
J. Guercio
S. Seno
Splitz
H. Polocinski, LOA

18034
Instrumentation Systems
M. Venty, Head
(A. Patway), Secretary
Systems Integration
R. Michler, GL
P. Cerniglia
R. Conolly
L. DeSanto
R. Hulst
Y. Zhang
C. Zimmer
Beam Components & Instrumentation
(T. Russo), GL
(L. DiFilippo), Secretary
C. Dawson
C. Degen
D. Gosner
(G. Mohler)
K. Merrick
P. Odds
M. Wilnacki

18035
Cryogenic Systems
Y. Thom, Head
D. Lederer, Dep.
P. Drift
(M. Govgin), Secretary
A. Workentin, TS
F. Cullen
K. Riser
C. Solot
M. Sardinski
T. Wozniak
G. Anderson
D. Martin
M. McNeill
G. Macdo
G. Polonski
L. Terrero
A. Warner
B. Yatsuro
Controls & Instrumentation
T. Talerico, GL
P. Talty
D. Zantopp
Y. Zhang
L. Mosi, TS
N. Donikian
D. Derryberry
W. Hiralz
J. Moore

18036
Vacuum Systems
M. Moses, GL
D. Weiss, Dep.
(L. DiFilippo), Secretary
R. Atkins
C. Rhein
N. Boer
C. Biscardi
J. Carlson
A. Weston
M. Myers
A. Ravenhill
R. Smart
R. Todd
S. Cas, TS
R. Davis, Dep.
D. Wilson, Dep.
S. Cas, TS
T. Higgins
P. O'Grady
V. Usack

18037
Electrical Systems
(B. Deter), Dep.
(A. Patway), Secretary
Engineering
R. Longo
W. Ng
C. Schuchman
R. Bonati
P. Rosca
M. Bonnon, TS
R. Baker
G. Danowski
J. M. Miller
Y. Tan
R. Zepasek, TS
J. Adessi
M. Kasper
K. Hartmann
S. Perlstein
S.M. Kasper
J. Mingos
A. Phom
S. Swettler
C. Wetta
Power Supplies
D. Bruno, GL
C. Mi
Magnet Protection
(R. Zepasek), TS
G. Gonetts (LS II)
O. Bangbose
M. DeLa Vergne
W. Louis (LS II)

18038
Preinjector Systems
J. Alessi, Head
D. McLeney*
S. Asaletti, Secretary
Linac
D. Raparia, GL
A. Kponou
D. Gould
V. LoDestro
D. Steaki
A. Zelenski
B. Briscoe
V. LoDestro, TS
F. Corlino
T. Lahn
J. Laster
W. Shaffer
Source
(J. Alessi), GL
E. Beebe
A. Henschelwirth
M. Okamura
A. Pili
T. Koneus+
J. Tamura+
D. McCafferty, TS
R. Schoepfer
18041
Tandem
(J. Alessi), GL
(C. Gardner)
P. Thiaberge
J. Benjamin*
(C. Carlson)
(D. Steaki)
(D. Steaki)
Z. Zajc
Technical Support
C. Carlson, TS
L. Cannizzo
P. Helig
L. James
R. Wall
Operations
(C. Carlson), TS
H. Abendroth, Dep.
J. Bohnenbluch
R. Eich
A. Glawson
H. Hocker
L. Mazzada, LOA
M. Morello
B. Nelson
P. Schutzenbaumer

18039
Facilities & Experimental Support
A. Pandick, Head
(P. Manning), Secretary
Engineering
D. Phillips
F. Koneus, Dep.
D. Gordon
E. Ulrich
Water Systems
J. Scoduto, TS
P. Calligaris
R. Edwards
M. Perogine
C. Sinesca
S. Yakobski
18088
J. Scoduto, TS
P. Calligaris
R. Edwards
M. Perogine
C. Sinesca
S. Yakobski
18089
F. Koneus, Dep.
D. Gordon
E. Ulrich
18091
F. Koneus, Dep.
D. Gordon
E. Ulrich
18092
F. Koneus, Dep.
D. Gordon
E. Ulrich

18007
ESSHQ DIVISION
R. Karol, Head
L. DiFilippo* Div. Secretary
ES&E Coordinator
A. Elkin
Environmental Protection
J. Scott
M. von Esandt (ESD)
L. Campione (WM)
Safety Engineering
P. Cirigliaro
Training
J. Maraviglia
A. Luhrs
18008
QA Management
D. Passarelli, QA Rep.
T. Bydenburgh
J. Montalto
Radiological Control (RCD)
P. Bergh, FS Rep.
Van Dyke, TS
D. Alchroch
K. Boland
T. Mukherjee
D. Stillwell
R. Wilkins
J. Williams

18034
Superconducting Accelerator and Electron Cooling
(I. Ben-Zvi), GL
(V. Litvinenko), Dep.
(P. Manning), Secretary
A. Burrill
R. Collaps
X. Chang
A. Fadotov
H. Hahn
D. Kayran
Y. Kawachi
(G. McIntyre)
(G. Wang)
(E. Pozdeyev)
Lattice & IR
(D. Trbojevic), GL
(J. Beebe-Wang)
(A. Drees)
W. Wang
J. Wang+
(S. Webb+)
Q. Wu
18034
Stochastic Cooling & Electron Lens
J.M. Brennan, GL
(A. Patway), Secretary
M. Blasiewicz
(W. Fischer)
Y. Luo
C. Montag

18011
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DO Director's Office
ESD Environmental Services Division
FS Facility Support
GL Group Leader
ISD Information Services Division
ITD Information Technology Division
LOA Line of Advance II
LSD Light Source II
MD Medical Division
PD Physics
RCD Radiological Control Division

KEY
SHSD Safety & Health Services Division
SSM Supply & Material Services Division
SSM Superconducting Magnet Division
Temp. Temporary
TS Technical Supervisor
WM Waste Management
Part Time Part Time
Student Assistant Student Assistant
+ Grad. Student
++ Guest
O Multiple Listing

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(J. Beebe-Wang)
(A. Drees)
W. Wang
J. Wang+
(S. Webb+)
Q. Wu

signature on file _____ Date: _____
Derek I. Lowenstein, Chairman

	Totals	Scientific	Mechanical Eng.	Electrical Eng.	Information Tech	Mechanical Tech	Electrical Tech	Tech Support
Accelerator Physics	23	22			1			
Electrical Systems	40			12		2	26	
SC Accel	12	11						1
Stochastic Cooling	4	4						
Machine Operations	26	6						20
e-RHIC	0	borrowed labor						
RF	15			7			8	
Instrumentation	29	2		9	1	7	9	1
Mechanical Systems	13		10			2		1
Cryogenic Systems	27		4	2	2	14	5	
Vacuum Systems	15		4	1		8	1	1
Preinjector Systems	32	10		3		8	1	10
Control Systems	36	1		8	17		10	
Facilities and Experimental	35		2	1		16	15	1
Design	18					12	5	1
Physics Support	4	4						
NASA SRL	2	2						
Communications	8				8			
Power	5			3			2	
ESSHQ	16							
ADMIN	11							
	371	62	20	46	29	69	82	36

2009 Shutdown List



- LINAC/BLIP 200 MeV Laser Profile Monitor (Nayak, Bellavia)
- LINAC/MEBT Further Upgrades for Raparia (Fite)**
- Booster EBIS Dipole Bus Design and Installation (Pendzick)**
- AGS Replace L10 RF Cavity with Standard AGS Cavity (Weiss)
- AGS Siemens Bearing Pedestal Repair/Replace, Transformer Heat XC Repair (Badea, Porqueddu)**
- AGS Gold Beam Vacuum Chamber loss remediation (???)**
- RHIC High Current Power Lead Insulator, redesign, test, fab., install (Hamdi, Seberg)
- RHIC ODH Flow Calculation and Modeling (Than, Liaw)***
- RHIC ODH Release Rate and Vacuum Cryostat Pressure/Max Safe Pressure Calculations (Liaw)***
- RHIC ODH 12 x 150 gas cooled lead repair, Ice Ball Heaters installation (Hamdi, Seberg, Heppner)
- RHIC ODH valve box helium deflection safety covers (Hamdi)
- RHIC ODH valve box vacuum relief valve – route to outside (Hamdi, Warkentien)
- RHIC Yellow Longitudinal Stochastic Cooler (original design) Move/Upgrade (Liaw)
- RHIC Transverse Stochastic Blue New Design and Location (Bellavia, Liaw)
- RHIC Ceramic Tube Longitudinal Pick-Up Design Yellow 2:00 (Brodowski).
- RHIC Upgrade old stochastic cooler feedthroughs to new design (Brodowski).
- RHIC RF M. Brennan mystery projects (Brodowski, ???)
- RHIC Injection Kicker Saturating Inductors in Yellow (Pai)
- RHIC IPM Upgrade (Fite)**
- RHIC Spin Magnet Remove and Repair (McIntyre, Seberg, AM?)**
- RHIC Remove Phobos Magnet at 10:00 (Pendzick, Mapes)
- RHIC Triplet Vibration Compensation Magnet Design and Install (???)

2010 Shutdown List (Preliminary)



- LINAC/MEBT Further Upgrade for Polarized Protons (Fite)
- LINAC New PP Source AIP with Zelinski (Ritter)
- Booster – D3 Multi-wire, Repair or Remove Booster IPM (???)
- Booster – E3 Kicker Feedthrough ??? (Pai)
- AGS Westinghouse Power Supply Stator Winding Reinsulation (Badea, Porqueddu)
- AGS Sextupole Coil Replacement (Badea)
- AGS IPM Upgrade (RHIC style??)
- RHIC ATR Gas Stripping IPM??? (???)
- RHIC Move RF Common Cavities and Power Amplifier (Weiss)
- RHIC Dummy Cryostat cold stochastic cooler pickup (Soria)
- RHIC AC Dipoles and Spin Rotator Dipoles installation, yellow (Pai, Nayak, Scaduto)
- RHIC Old (Single) Polarimeter, reinstall as an IPM??? (Mahler/Bugros)
- RHIC ODH valve box electrical link box (Badea, Hamdi)
- RHIC Quad 6200 Amp co-axial bus link test and installation @10:00. (Liaw, Than)
- RHIC Collimator Upgrade (new scraper shape ??) (???)
- RHIC Old (Single) Polarimeter, reinstall as an IPM (???)
- RHIC 26 MHz Ferrite Tuner Fabricate, Assemble, Install (Brodowski)
- RHIC RF Reshape (stretch) Landau Cavities (Brodowski)
- New valve box walkways. (Hamdi)
- RHIC RF Power Tube Water Cooling Upgrade (Weiss)
- RHIC AC Dipoles and Spin Rotator Dipoles installation, blue upgrade (Pai, Nayak, Scaduto)

C-AD Projects – Ongoing

- EBIS Project (Snydstrup, Bellavia, Ritter, Mapes, Nayak . . .)
- EBIS SC Solenoid Spare (Tuozzolo, Snydstrup)
- BLIP Target Design and Support (Bellavia, Hock, New Hire)
- Update Stress Analysis on J10 dump. (Bellavia)
- DPIS/Laser Ion Source maintenance support (Ritter)
- Cryogenic Vertical Test Dewar Design and Installation. (McIntyre, Than, Porqueddu)
- ERL/VTF reliquifier plant installation. (Than, Lederle, Quimby, Porqueddu)
- Layout and schedule for e-cooling (McIntyre)
- ERL 5 cell cavity and e-gun testing (McIntyre, Weiss, Mahler, Pai, Than, Lederle, Quimby)
- ERL Gun to 5 cell test beam line (McIntyre, Mahler, Weiss)
- ERL Gun Cathode test facility (Mahler)
- ERL injection and dump line layout, ring installation. (McIntyre, Mahler, Fite, Weiss)
- RHIC Cryogenics Compressor Maintenance and Repair (Badea, Porqueddu)
- RHIC RF Testing Block house design and installation (Badea, Benante)
- RHIC RF Power Tube Water Cooling Upgrade (Weiss)
- RHIC 56 MHz SCRF Cavity and Power Feeds Design (McIntyre, Pai, Bellavia, Grau) - 2011
- RHIC e-Lens Project - 2011
- e-RHIC layout and preliminary design. (Mahler, Mapes, McIntyre, Tuozzolo,
- Building 924 Upgrade (Tuozzolo, Russo, Lehn, et al).
- C-AD building consolidation: 905, 912 storage, 918, ADS (Tuozzolo, et el).
- RHIC AC Dipoles and Spin Rotator Dipoles installation, blue (Pai, Nayak, Scaduto)

Design Room Assignments Monthly Snapshot

Only one EBIS first time in two+ years.



Bowman – EBIS, ERL, Vertical Test Facility Layout

Bugros – Stochastic Cooling (Yellow Kicker), Blip Basket/Target (Hold)

DeMonte – Stochastic Cooling RF-Window & RF Feed-thru, Linear Collider (902), LEBT-magnet/chambers

Grau – 56 MHz RF Cavity, RF Feeds, & Dampers

Halinski – MEBT Quads & Coil Winding Fixture, Debuncher, EBIS Beam line Chambers

Hamdi - 12x150 PWR Leads, Valve Box lead heaters, insulators, and covers, VB Link Boxes

Miglionico – Stochastic Cooling (Blue kicker), checking

Picataggio – G5 Layout(RTR), ERL Z Line layout

Ritter – Checking Stochastic Cooling, Blue and Yellow

Russo – ERL Electron Gun/Cavity String Assembly Tooling/Fixture

Zebuda – CK 56Mhz Cavity

Summer Students – MeRHIC Layout and Magnet Design, ERL Condo Cooling

Backlog: Test e-gun magnets and chambers, ERL GT5 Injection Layout, ERL Z line layout, RHIC Common Cavity Installation 3:00, 9Mhz RHIC RF Cavity (as built), BLIP Laser Profile Monitor, RHIC Compensation Dipoles, electron lens project, 2010 Stochastic Cooling Cavities

C-AD Mechanical Systems

ME Assignments

Badea	RHIC RF Testing Block house design and installation @ 4:00
Badea	Westinghouse PS Stator Winding Rework 2009
Badea	Seimens PS Pedastle No.3 rework
Badea	RHIC Cryogenic Compressor Vibration Study
Badea	RHIC Cryogenic Compressor Engineering Support
Badea	AGS Sextupole Magnet Upgrade
Badea	P Bank defective radiator removal, repaired and reassembled
Badea	4 o'clock Power supplies retrofitted with new Transf.(2 units)
Badea	Investigate and resolve Nitrogen leak on transformer F2
Badea	Siemens Motor Generator extended maintenance

Fite	RHIC IPM Upgrade
Fite	LINAC LEBT Line Reconfiguration (2009 update)
Fite	NSRL Beamline Support
Fite	NSRL Operatorless Access Hardware Installation
Fite	NSRL Incubator Modifications
Fite	ERL Beam Dump Line Lay out and Magnet Design
Fite	ERL 2 KG Solenoid Magnet design (Ring)
Fite	Tier I Safety Inspection Team Member

Bellavia	Transverse Stochastic Cooler Blue New Hinged Design
Bellavia	BLIP Laser Profile Monitor - 200 MeV Design
Bellavia	56 MHz Cavity Power Coupler and Damper Design and Analysis
Bellavia	e-RHIC Lattice Analysis Support
Bellavia	EBIS Linac Drift Tube Design and Fabrication
Bellavia	EBIS Instrumentation Design and Fabrication
Bellavia	BLIP Beam Line Corrector Magnet Installation
Bellavia	BLIP Target Analysis and Support
Bellavia	BLIP Bolted Target Design and Fabrication
Bellavia	Design Room Group Leader, ANSYS Contract Co-ordinator
Bellavia	ANSYS Support Co-ordinator
Bellavia	Magnet Safety Inspection
Bellavia	Computer Aided Engineering Analysis
Bellavia	NSRL Beam Plug

Hock	e-Lens Design and Installation
Liaw	pp2pp Roman Pot Window Selection Calculations
Liaw	RHIC Magnet Line ARC Flash Calculation
Liaw	RHIC Stochastic Cooler Yellow Longitudinal Upgrade 2:00
Liaw	RHIC Stochastic Cooler Blue Vertical 12:00
Liaw	RHIC Stochastic Cooling Blue Horizontal 12:00
Liaw	RHIC Stochastic Cooling Yellow Horizontal 3:00
Liaw	RHIC Vacuum Cryostat Pressure Safety Calculation
Liaw	Vertical Test Dewar Design and Safety Calculations
Liaw	AGS Pulsed Quadrupole Magnet Design and Installation
Liaw	EBIS Pulsed Power Supply Design, Thermal Analysis and Installation

Brodowski	Ceramic Pick-up for Stochastic Cooler Design
Brodowski	RHIC CERN RF Cavity Stretcher
Brodowski	Stochastic Cooler Feedthrough Engineering
Brodowski	26 MHz Tuner Assembly and Test
Brodowski	Linear Drive Stochastic Cooler Design
Brodowski	MEeRHIC Preliminary Engineering Design Layout
Brodowski	Latest Current Transformer Design
Brodowski	RF Group Engineering Support

Mahler	C-AD Polarimeters - Problem du Jour
Mahler	AGS IPM Upgrade - RHIC style IPM
Mahler	DAT Detector Design "Nano Boone"
Mahler	ERL Ring Magnet Design and Procurement
Mahler	Photocathod e-Gun Magnets and Vacuum Chambers
Mahler	MEeRHIC Preliminary Engineering Design Layout
Mahler	e-RHIC Prototype Magnet Design
Mahler	e-RHIC Prototype RF Cavity Design
Mahler	Atlas Detector Upgrade

ME Assignments



McIntyre	RHIC Liaison Mechanical Engineer	Porqueddu	Vertical Test Dewar Shielding and Installation - Moving Cover
McIntyre	RHIC Space Allotment Coordinator		VTD/ERL/LBH Cryogenic refrigerator piping design & Installation
McIntyre	56 MHz Cavity Design and Schedule	Porqueddu	Siemens/Westinghouse Power Supply System Support
McIntyre	Vertical Test Dewar Design and Schedule	Porqueddu	Siemens PS Motor Bearing Pedestal Rework/Replacement
McIntyre	ERL Lead Engineer	Porqueddu	Siemens Radiator Repairs
McIntyre	ERL 5 cell cavity design and fabrication	Porqueddu	Westinghouse PS Stator Winding Rework 2009
McIntyre	ERL e-gun engineering liaison	Porqueddu	Westinghouse fan room repairs
McIntyre	Spotlight Awards Committee Chairperson		Vibration monitoring test equip. for rotating machinery. (Roger B.)
McIntyre	Bargaining Unit Grievance Contact for C-AD	Porqueddu	RHIC Cryogenic Compressor Engineering Support
McIntyre	Triplet Magnet Vibration Mitigation	Porqueddu	Platforms for Cold Box 4 & 5 & Spider valve area
McIntyre	e-RHIC SCRF Cavity Lead Engineer	Porqueddu	AGS Magnet Covers
Nayak	EBIS Source Beam Line Design	Porqueddu	RHIC Cryo 80K cooler piping modification analysis
Nayak	RHIC Blue and Yellow Spin Flipper Vacuum and System Installation	Porqueddu	RHIC Cold Mass Storage System
Nayak	NSRL vacuum window		
Nayak	EDM Experiment Design and Analysis Support		
Nayak	BLIP LPM	Ritter	EBIS Liaison Engineering Support
Pai	RHIC AC Dipole/Spin Flipper Upgrade Project (Blue)	Ritter	OPPIS Polarized Source Mechanical Engineering
Pai	56 Mhz RF Cavity Design	Ritter	EBIS Dipole Magnet Design, Procure, Bus and Water Install
Pai	56 Mhz RF Cavity Sensitivity and Field distribution Study	Ritter	EBIS Electron Gun Design and Procure
Pai	56 Mhz RF Cavity Tuner Design	Ritter	EBIS Test System Mechanical Engineering
Pai	ERL Gun Ansys Calculation Review	Ritter	EBIS Stands and Supports
Pai	RHIC AC Dipole/Spin Flipper Upgrade Project (Yellow)	Ritter	EBIS LEBT
Pai	Injection Kicker PFN Upgrade/Bipolar Solid State Modulator	Ritter	EBIS MEBT
Pai	RHIC Abort Kicker Upgrade Support	Ritter	EBIS KOBRA Simulations
Pai	RHIC Injection Kicker Upgrade and Repair	Ritter	EBIS External Sources and Injection
Pai	Computer Aided Engineering Analysis - Targets, vacuum chamber, etc.	Ritter	LEBT High Intensity Proton Source Mechanical Engineering
		Ritter	FABS - Fast Atomic Beam Source

ME Assignments

Snydstrup	EBIS Lead Engineer/Deputy Project Manager
Snydstrup	EBIS Ext. Ion Source Line (Layout, Switch Chbr, Quads, Instr,etc.)
Snydstrup	EBIS SC Solenoid Magnet Procurement and Installation
Snydstrup	EBIS SC Spare Solenoid Magnet Procurement Support
Snydstrup	EBIS IH-Linac Procurement and Installation
Snydstrup	EBIS RFQ Procurement and Installation
Snydstrup	Injector Systems (Tandem VDG) Liaison Mech Engineer
Snydstrup	EBIS RF Buncher Procurement and Installation support

Todd	RHIC Polarimeter Vacuum System Support
Todd	TiN coating, NEG coating
Todd	RHIC gas Jet
Todd	ERL clean room and particulate system
Todd	RHIC RF bakeout

Tuozzolo	RHIC Chief ME/Acc. Div. Mechanical System Group Leader
Tuozzolo	HR Liaison, Performance Appraisal and Salaries
Tuozzolo	ASSRC and ESSRC, BNL Pressure Safety
Tuozzolo	Space Committee, Equipment Storage, SPS
Tuozzolo	C-AD Building Consolidation Plan
Tuozzolo	Triplet Magnet Vibration Mitigation
Tuozzolo	EBIS SC Solenoid Magnet Spare Procurement
Tuozzolo	MeRHIC Design Engineering Support
Tuozzolo	RHIC e-lens Design Engineering Support

Weiss	L10 Cavity installation
Weiss	Move RHIC RF Common Cavities to 3:00
Weiss	ERL Vacuum Systems
Weiss	DX to D0 Roman Pots Layout and Design

Major initiatives:

EBIS

Stochastic Cooling

56 MHz

RHIC ODH issues

RHIC UG: IPM's, Triplets, RF, Kickers.

PP2PP, BLIP, LPM, PP Source, LEBT

NSRL

e-Lens

ERL

SCRF VTF

Maintenance: AGS PS, Cryo

ANSYS analysis support

New Projects: MeRHIC, e-cooling

Summary – Mechanical Engineering Staffing



- Another busy shutdown – but this year on a very short schedule with critical items (?).
- Engineering support is typically underestimated – EBIS & ERL the most recent examples.
- We are an R&D business building prototypes – redesigns are engineering intensive, schedules do not permit testing and development of design. (EBIS, stochastic cooling, spin flipper AC PS)
- There are more people with great ideas than there are mechanical engineers and technicians to execute them. (MeRHIC, e Lens, LEe-cooling, stochastic, etc.)
- All of the engineering and design staff are assigned to multiple projects.
- Project management responsibilities are further diluting the engineering availability.
- + Significant support from Lehn, Seberg, Pontieri, Benante, etc. and design room.
- More documentation for safety – lifting and pressure, training, reviews, forms etc.
- One new hire next week and 2 new requisitions will help if filled – back out for BLIP support.
- 2 contract engineers and 1 contract designer have helped as well.
- Still need additional design room support and mechanical technician support & AC Czar.
- And we haven't analyzed approaching retirements and possible transfers

C-AD Building Consolidation Program



With the completion of RHIC construction and the SNS project, C-AD has been on a long term building and staff consolidation program.

Goals:

- Return underutilized buildings to Laboratory for other use.
- Consolidate staff in and around building 911
- Abandon and Demolish of high maintenance and energy inefficient buildings and trailers.
- Scrap obsolete equipment and spare components and old production fixtures.
- Secure valuable materials and equipment.

ADS Program Proposals

ADS #	TITLE	S	OR G	CHAMPION	TEC	STATUS
AA8D0029	REHAB CONCRETE RETAINING WALL NEAR H-10 HOUSE	186	AD	PENDZICK, A.	100	To be estimated FY2009
AA3D0035	MAIN BUILDING 912 ROOF REHABILITATION		AD	PENDZICK, A.		To be completed FY2009
AA7D0007	MOTOR CONTROL EQUIPMENT CONSOLIDATION AND UPGRADE	244	AD	SANBERG, J.	1,500	Started FY2009, TBC FY2011
AA8D0030	RENOVATE B/924 TO INCREASE OPERATIONAL EFFICIENCY	312	AD	TUOZZOLO, J.	800	Started FY2009, TBC FY2010
AA8D0003	EXIT ENCLOSURE FOR BUILDING 930		AD	TUOZZOLO, J.		ESH Item
AA8D0031	RENOVATE B/911	212	AD	TUOZZOLO, J.		Estimated FY2009
NEW	COMPLIANCE WITH FIRE PROTECTION REQUIREMENTS AT C-AD'S ACCELERATORS AND MAIN CONTROL AREAS (BUILDINGS 909, 911, 913, 914, 927, 930 AND NSRL COMPLEX)		AD	LESSARD, E.		ESH Item
NEW	COMPLIANCE WITH FIRE PROTECTION REQUIREMENTS AT C-AD'S COLLIDER AND CRYO CONTROL AREAS (BUILDINGS 1012, 1010, 1005H, 1005R, 1008, 1004, 1005E, 1007W, 1002 AND 1006)		AD	LESSARD, E.		ESH Item
NEW	COMPLIANCE WITH FIRE PROTECTION REQUIREMENTS AT C-AD'S OPERATIONS BUILDINGS (928, 929, 942, 901A AND 912)		AD	LESSARD, E.		ESH Item
AA8D0032	RENOVATE B/918 TO INCREASE OPERATIONAL EFFICIENCY	222	AD	TUOZZOLO, J.		Estimated FY2009
AA1D0087	EXTENSION OF B/1101 FIRE SPRINKLER SYSTEM	-	AD	LESSARD, E.	65	ESH Item
AA2D0047	RESTORE REQUIRED AGS FIRE PROTECTION FLOW CAPACITY		AD	LESSARD, E.		ESH Item
N98d0107	13.8 KV DISTRIBUTION SYSTEM REINFORCEMENT - PHASE 1		AD	SANBERG, J.	900	
AA6D0037	REPLACE OUTDOOR POWER DISTRIBUTION PANELS, C-A		AD	SANBERG, J.	500	
P98D0010, 26, 27 and 28	UPGRADE POWER DISTRIBUTION SYSTEM FOR AGS FAN HOUSES A, B, C, D and E AND NORTH TARGET BUILDING 912		AD			
AA6D0060	SEPARATION OF CHILLED WATER LINE BETWEEN NON-ACTIVATION AREAS AND ACTIVATION AREAS		AD	LESSARD, E.		
N98D0086	NEW TRANSFORMER #9		AD	SANBERG, J.		
AA6D0034	RHIC REPAVING B/1006E, 1007W, 1008B AREAS		AD	PENDZICK, A.		

C-AD Building Consolidation Program



Plan in Process to Abandon Older Buildings and Consolidate Staff.

- Update building 912 for Technician Space and Equipment Storage

 - Infrastructure in place: power, water, air, and cranes

 - Infrastructure in place: Interior walkway with 911

 - Infrastructure needs: roof repair underway, interior work areas

- Convert building 918 to technician support shop area.

- Update building 924 for mechanical and electronic technician shop.

- Abandon old tech shops & trailers in 919A, 919B, 919C and 975 (924)

- Abandon old tech shops and offices in 923 (eventually) to 911?.

- Abandon 905 area (924, 918, 912).

Consolidation Summary

