

Marine Systems Coordinating Committee (MARSYS)

2008 Fourth Quarter Report

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1. Past Meetings

1.1 First Formal Meeting – June 2007

The first formal meeting of MARSYS was held 23 June 2008 in Pittsburgh, PA. The minutes from this meeting are included in Annex A.

1.2 MARSYS Executive Committee (ExCom) Conference Calls

1.2.1 July 1, 2008

The fourth conference call of the IEEE Power and Energy Society Marine Systems Coordinating Committee was held on 1 July 2008. The objective of this conference call was to discuss the PES General Meeting and to get ideas for presentations for the meeting. The minutes from this meeting are included in Annex A.

1.2.2 July 8, 2008

The fifth conference call of the IEEE Power and Energy Society Marine Systems Coordinating Committee was held on 8 July 2008. The objective of this conference call was to review the agenda for the MARSYS meeting at the PES General Meeting. The MARSYS Standards Coordinator was also assigned during this meeting. The minutes from this meeting are included in Annex A.

1.2.3 September 10, 2008

The sixth conference call of the IEEE Power and Energy Society Marine Systems Coordinating Committee was held on 10 June 2008. The objective of this conference call was to discuss a possible panel session at PSCE, the MARSYS website, and upcoming meetings. The minutes from this meeting are included in Annex A.

2. Future Meetings and Conference Calls

2.1 Meetings

2.1.1 PES Joint Technical Committee Meeting (JTCM) – January 2009

MARSYS is hosting a coordination meeting among P45.2 Electrical Installations on Shipboard – Controls and Automation, P45.3 Electrical Installations on Shipboard – System Integration, and P1676 Guide for Control Architecture for High Power Electronics (1 MW and Greater) used in Electric Power Transmission and Distribution Systems during the PES JTCM. The purpose of the meeting is to assure that the control architecture and nomenclature in all three documents coincides.

2.1.2 Power Systems Conference and Exposition (PSCE) – March 2009

MARSYS is scheduled to meet during PSCE. An agenda for the meeting has not been created yet.

2.1.3 PES General Meeting (GM) – July 2009

MARSYS is scheduled to meet during the PES GM. An agenda for the meeting has not been created yet.

2.2 MARSYS Conference Calls

The MARSYS Executive Committee will hold conference calls until mid-July in order to prepare for PSCE and the PES General Meeting.

3. MARSYS Annual Calendar

The MARSYS Annual Calendar is included in Annex A.

4. Executive Committee (ExCom) and Members

The Executive Committee is made up of the Committee Officers and the Subcommittee Chairs.

Officers

Chair – Paul Bishop

Vice-Chair – Dwight Alexander

Secretary – Lyndsay Garrett

MARSYS Standards Liaison – Yuri Khersonsky

Subcommittee Chairs

Electric Ships and Marine Platforms Subcommittee Chair – Tim McCoy

Marine Wind, Wave, and Tidal Systems Subcommittee Chair – Steinar Dale

Marine Transmission and Distribution Subcommittee Chair – Nari Hingorani

Marine Grounding and Safety Subcommittee Chair – Michael Turner

Environmental Impact Subcommittee Chair – Open

Education and Symposia Subcommittee Chair – Herb Ginn

Organization and Procedures Subcommittee Chair – Jim Quirk

Annex A

A.1 Meeting Minutes

A.1.1 First Formal Meeting – June 2007

**POWER AND ENERGY SOCIETY
MARINE SYSTEMS COORDINATING COMMITTEE
Westin Convention Center – Pittsburgh, PA
July 23, 2008**

FIRST FORMAL MEETING

The first formal meeting of the IEEE Power and Energy Society (PES) Marine Systems Coordinating Committee (MARSYS) was held on 23 July 2008. Chairman Paul Bishop welcomed the attendees, introductions were made, and the meeting was called to order at 0810 EDT. A list of attendees is attached.

MORNING SESSION

The morning session was focused around Michael Turner's *Marine Switchgear Safety and Grounding* presentation presented by Paul Bishop. The meeting adjourned for lunch at 1100 EDT.

AFTERNOON SESSION

The afternoon session reconvened at 1340. At this point, more members and guests joined the meeting. The minutes outlining the afternoon session are below.

Chairman's remarks

The Chairman reviewed the agenda. A motion to approve the agenda was made by Joe Sullivan and seconded by Lyndsay Garrett. The motion passed. Noel Schultz added that quorum may be the majority of those present for Committees because membership may be 100s.

Introductions

The members and guest made introductions and gave a brief synopsis of their backgrounds.

Presentation – MARSYS Purpose, Scope, and Activities Presentation

Chairman Paul Bishop presented the presentation he gave to the PES Technical Council at their meeting 22 July 2008. A copy of this presentation is posted on SharePoint.

Presentation – Power and Energy Opportunities in the Marine Environment

PES Treasurer Noel Schulz gave a presentation. This presentation covered the progression and evolution of MARSYS before it became a committee. A copy of the presentation is posted on SharePoint.

State of the Standards

A presentation and discussion about current standards MARSYS needs to be aware of and what MARSYS should do with standards was lead by Lyndsay Garrett. A copy of the presentation is posted on SharePoint.

New Projects

The potential projects list was presented. This list includes the Committee Focus Matrix, participation in upcoming meetings, and MARSYS Website. Paul Bishop went over the Responsibilities and Duties of Marine Systems Coordinating Committee as listed in O & P Manual. A list of upcoming meetings is listed below with the high-priority meetings in bold text.

- **NAPS 2009 November 2009**
 - Panel on Marine Systems
- MAST November 2008
- **PSCE March 2009**
 - Standards panel?
 - Session?
 - Tidal Power
- PCIC September 2008, 2009
- **ESTS 2009 April 2009**
- ASNE Engineering total ship September 2008
- **PES GM**
 - Ned Mohan
 - Ocean renewable energy sources
 - Panel - power systems on ships
 - Paper session
- IMAREST

Upcoming Conferences

MARSYS needs to be present at as many conferences as possible. The upcoming conferences were discussed and a priority was given to the bolded conferences below. Panel, paper, and poster sessions are options for MARSYS-sponsored sessions at these conferences (listed above).

Herb Ginn spoke to Dr. Ned Mohan about giving a presentation at a MARSYS meeting. Dr. Mohan expressed a preference for giving a presentation at PES GM 2009 in Calgary, Alberta.

Mississippi State University is hosting the North American Power Symposium (NAPS) November 2009. NAPS is sponsored by the Power Engineering Education Committee of PES. A panel session on Marine Systems may be lead by MARSYS.

Possible Topics for Panel Sessions

Topics for the planned panel session were discussed. “Ocean Renewable Energy Sources,” “Power Systems on Ships,” “Cross-over Technology between Terrestrial and Marine Systems,” and an education focus were mentioned.

Paper sessions and poster sessions were also discussed. Both a panel session and poster session could be done at the same conference. The paper session can be done in a combo-session with the committee meeting.

New Standards

Discussion was started about adopting P1676 for Marine Systems.

Subcommittee Outlooks

Each Subcommittee Chair was given the chance to state their vision for MARSYS’s future. These outlooks are listed below.

- Nari Hingorani, Chair of the Marine Transmission and Distribution Subcommittee, suggested “Marinization of Existing Standards,” specifically starting with P1676.
- Steinar Dale, Chair of the Marine Wind, Wave, and Tidal Subcommittee, mentioned having Jack Fedor as vice-chair. He suggested that we get our hands around what the various IEEE committees and associations that are involved this committee. He may also give presentation on this at the next meeting.
- Herb Ginn, Chair of the Education and Symposia Subcommittee, suggested coupling into a non-marine related society in education.
- Jim Quirk, Chair of the Organization and Procedures Subcommittee, reported that the quarterly report has been completed and the O&P manual is complete. He also stated that the role of his subcommittee is support.

NEW ACTION ITEMS

All action items are posted on the MARSYS Site B SharePoint site.

Description

Assigned To

Look in the SA Rules to see if MARSYS could initiate Standards.

Lyndsay Garrett

Find out what conferences the ship builders go to.

Generate a flyer or postcard-like publication for distribution at meetings.

??

Put all upcoming meeting dates (marine events) on SharePoint.

Roger Leete

Get deadlines for PSCE (March 09) and PES GM (July 09) (?)

Herb Ginn

Check to see if ASCE has anything in their initiative on power systems.

NEXT MEETING

The next meeting has not been determined yet. A meeting may be held at ASNE 23 – 25 September 2008. A meeting will be scheduled for the Joint Technical Meeting January 2009.

ADJOURNMENT

A motion to adjourn was made by Joe Sullivan and a second was made by Herb Ginn. The meeting was adjourned at 1635 EDT.

ATTENDANCE

Name	E-mail Address	Company
Paul Bishop	pcbishop@bishopgroup.net	The Bishop Group
Jim Quirk	jamesq@bishopgroup.net	The Bishop Group
Steinar Dale	dale@caps.fsu.edu	CAPS – FSU
Lyndsay Garrett	lngarrett@bishopgroup.net	The Bishop Group
Joe Sullivan	Joseph.R.Sullivan@navy.mil	NSWC – Philadelphia
Howard Kirkham	harold.kirkham@jpl.nasa.gov	JPL
Yuri Khersonsky	yuri.khersonsky@ieee.org	Consultant
Albert Tucker	ajtucker@ieee.org	Consultant
Nari Hingorani	nghingorani@sbcglobal.net	Consultant
Herb Ginn	ginn@ece.msstate.edu	MSU
Noel Schulz	schulz@ece.msstate.edu ; n.schulz@ieee.org	MSU, Treasurer of PES
Jack Fedor	jfedor@alionscience.com	Alion Science Technology
Paul Howard	plhoward@aol.com	Consultant, Howard Enterprises

A.1.2 ExCom Conference Call – July 1, 2008

**POWER AND ENERGY SOCIETY
MARINE SYSTEMS COORDINATING COMMITTEE
JULY 1, 2008
CONFERENCE CALL**

FOURTH COMMITTEE CONFERENCE CALL

The fourth conference call of the IEEE Power and Energy Society Marine Systems Coordinating Committee was held on 1 July 2008. Chairman Paul Bishop welcomed the attendees and called the meeting to order at 1537 CDT. A list of attendees is attached.

PES GENERAL MEETING

The MARSYS meeting at the PES General Meeting will be held on Wednesday. An agenda needs to be created that includes a MARSYS business meeting, a paper presentation by Dr. Noel Shultz, a safety presentation, and a discussion from each Subcommittee Chair's plans. James Quirk and Herb Ginn will work together on the agenda.

QUARTERLY REPORT

The MARSYS Quarterly Report will be submitted by 3 July.

IEEE AID

MARSYS may want to produce an aid to help understand the Committees, standards, etc. of the IEEE. Yuri Khersonsky will be asked to head this task with the help of Steinar Dale, James Quirk, and Dwight Alexander.

OTHER IDEAS

- MARSYS should attend other Committee meetings to acquire interest in the MARSYS Committee meeting
- Have a meeting with other Committee Chairs to get the word out about MARSYS and to see what we can do to help them
- Herb Ginn or James Quirk will represent MARSYS at the Technical Council's Programming Committee meeting
- Can non-IEEE members be members of MARSYS?
- Al Tucker may help with the Marine Wind, Wave, and Tidal Subcommittee

UPCOMING DATES

PES General Meeting: 20 July – 24 July 2008 in Pittsburgh, PA

PSCE: March 2009 in Seattle, WA

NEW ACTION ITEMS

All action items are posted on the MARSYS Site B SharePoint site.

Description	Assigned To
Get our meeting in the PES GM announcements (talk to P. Traynor)	Paul Bishop
Figure out which committee meetings we, as a Committee, want to attend	Lyndsay Garrett
Start agenda for PES GM	Herb Ginn/James Quirk
Call the PES O&P Committee Chair (check on status of MARSYS O&P Manual)	Paul Bishop
Look for a positive statement about non-IEEE members	Lyndsay Garrett

NEXT MEETING

The next conference call will be held 15 July 2008 at 1530 CDT.

ADJOURNMENT

The meeting was adjourned at 1615.

ATTENDANCE

Name	E-mail Address	Company
Paul Bishop	pcbishop@bishopgroup.net	The Bishop Group
Dwight Alexander	dwright.alexander@ngc.com	Northrup Grumman
Lyndsay Garrett	lmgarrett@bishopgroup.net	The Bishop Group
Jim Quirk	jamesq@bishopgroup.net	The Bishop Group
Al Tucker	ajtucker@ieee.org	Consultant
Steinar Dale	dale@caps.fsu.edu	FSU CAPS

A.1.3 ExCom Conference Call – July 8, 2008

**POWER AND ENERGY SOCIETY
MARINE SYSTEMS COORDINATING COMMITTEE
JULY 8, 2008
CONFERENCE CALL**

FIFTH COMMITTEE CONFERENCE CALL

The fifth conference call of the IEEE Power and Energy Society Marine Systems Coordinating Committee was held on 8 July 2008. Chairman Paul Bishop welcomed the attendees and called the meeting to order at 1535 CDT. A list of attendees is attached.

PES GENERAL MEETING DRAFT AGENDA

The agenda for the MARSYS meeting at the PES General Meeting was sent out prior to the Conference Call. A copy can be found on SharePoint (MARSYS Site B) and is also attached. Because WGi8 is holding a tutorial Wednesday morning (23 July 2008), MARSYS will hold its Committee meeting Wednesday afternoon.

STANDARDS LIAISON

Yuri Khersonsky volunteered to be the MARSYS Standards Liaison. He will act as liaison between MARSYS and the Power and Electronics Society, Industry Applications Society, and the Ocean Engineering Society. The Standards Liaison position will be added to the MARSYS Executive Committee.

NEW ACTION ITEMS

All action items are posted on the MARSYS Site B SharePoint site.

Description

Assigned To

Add Standards Liaison to the Executive Committee

Lyndsay Garrett

NEXT MEETING

The next conference call will be held 15 July 2008 at 1530 CDT.

ADJOURNMENT

The meeting was adjourned at 1600.

ATTENDANCE

Name	E-mail Address	Company
Paul Bishop	pcbishop@bishopgroup.net	The Bishop Group
Dwight Alexander	dwright.alexander@ngc.com	Northrup Grumman
Lyndsay Garrett	lngarrett@bishopgroup.net	The Bishop Group
Jim Quirk	jamesq@bishopgroup.net	The Bishop Group
Yuri Khersonsky	ykhersonsky@ieee.org	Consultant

A.1.4 ExCom Conference Call – September 10, 2008

**POWER AND ENERGY SOCIETY
MARINE SYSTEMS COORDINATING COMMITTEE
SEPTEMBER 10, 2008
CONFERENCE CALL**

CONFERENCE CALL

An IEEE Power and Energy Society Marine Systems Coordinating Committee conference call was held on 10 June 2008. Chairman Paul Bishop welcomed the attendees and called the meeting to order at 1002 CDT. A list of attendees is attached.

PSCE

A panel session is being set up for PCSE. The hopeful speakers are representatives from the WET Program and USCG. The dates need to be finalized, speakers scheduled, and the panel session publicized. The panel session can be publicized by sending a mass e-mail to the SharePoint AEPS users and through IEEE PES.

MARSYS WEBSITE

The MARSYS website is in place. The website includes information for gaining access to the SharePoint site as well as the Committee and Subcommittee scopes. The url is ewh.ieee.org/cmte/pes/msc.

UPCOMING DATES

PES Technical Meeting: January 11 – 15, 2009 Atlanta, GA
PSCE: March 15 – 18, 2009 Seattle, WA (<http://www.pscexpo.com/default.asp>)
ESTS: April 20 – 22, 2009 Baltimore, MA (<http://ewh.ieee.org/conf/ests09/>)
PES General Meeting: July 2009

NEW ACTION ITEMS

All action items are posted on the MARSYS Site B SharePoint site.

Description

Assigned To

Confirm Presentations for PSCE
Contact Chairman of Oceans 2009 Conferences

Jim Quirk
Steinar Dale

NEXT MEETING

The date and time for the next conference call is TBD.

ADJOURNMENT

The meeting was adjourned at 1027 CDT.

ATTENDANCE

Name	E-mail Address	Company
Paul Bishop	pcbishop@bishopgroup.net	The Bishop Group
Lyndsay Garrett	lngarrett@bishopgroup.net	The Bishop Group
Jim Quirk	jamesq@bishopgroup.net	The Bishop Group
Albert Tucker	ajtucker@ieee.org	Consultant
Herb Ginn	ginn@ece.msstate.edu	MSU
Steinar Dale	dale@caps.fsu.edu	CAPS – FSU

A.2 MARSYS Annual Calendar

January

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 2008 4 th Quarter Report Due	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
	PES JTCM					
		MARSYS Coord. Mtg.				
18	19	20	21	22	23	24
25	26	27	28	29	30	31

February

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat		
1	2	3	4	5 MARSYS Conference Call 3:00 CST	6	7		
8	9	10	11	12	13	14		
							ASNE/SNAME Electric Ship Design Symposium	
15	16	17	18				19	20
	ASNE 2009							
	P45.3	P1709						
22	23	24	25	26	27	28		

March

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5 MARSYS Conference Call 3:00 CST	6	7
		P45 – NOLA				
8	9	10	11	12	13	14
				P1713 – Diamond Bar, CA		
15	16	17	18	19	20	21
Power Systems Conference & Expo (PSCE)						
			P45.3			
22	23	24	25	26	27	28
29	30	31				

April

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 1 st Quarter Report Due	2 MARSYS Conference Call 3:00 CST	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
	ESTS			P1676 – WCGS		
26	27	28	29	30		

May	Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1	2
	3	4	5	6	7 MARSYS Conference Call 3:00 CST	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
				P1713 – Diamond Bar, CA			
	24	25	26	27	28	29	30
	31						
2009							

June	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4 MARSYS Conference Call 3:00 CST	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18 MARSYS Conference Call 3:00 CST	19	20
	21	22	23	24	25	26	27
	28	29	30				
	2009						

July	Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 2 nd Quarter Quarterly Report Due	2 MARSYS Conference Call 3:00 CST	3	4
	5	6	7	8	9	10	11
				P1713 – Diamond Bar, CA			
	12	13	14	15	16 MARSYS Conference Call 3:00 CST	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
	PES General Meeting						
2009							

August	Sun	Mon	Tue	Wed	Thu	Fri	Sat
							1
	2	3	4	5	6 MARSYS Conference Call 3:00 CST	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
	2009						

September

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 MARSYS Conference Call 3:00 CST	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
	IAS PCIC			P1709		
20	21	22	23	24	25	26
27	28	29	30			

October

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 3 rd Quarter Report Due ----- MARSYS Conference Call 3:00 CST	2	3
4	5	6	7	8	9	10
NAPS						
11	12	13	14	15	16	17
18	19	20	21	22	23	24
			MAST 2009			
25	26	27	28	29	30	31

November

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5 MARSYS Conference Call 3:00 CST	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

December

2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 MARSYS Conference Call 3:00 CST	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		