



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

Minutes from the ANS NCSD Executive Committee

Pacific Salon 3 – Town and Country Resort and Convention Centre
San Diego, CA
ANS Winter Meeting
Sunday 11th November, 2012

1. Call to Order

The Executive Committee Chair, Larry Wetzel, convened the meeting at approximately 3pm. All of the Division Officers except the Treasurer/Finance Chair were present. The serving Division Officers are as follows:

Position	Name	Phone	E-mail Address
Chair	Larry Wetzel	(434)522-6580	llwetzel@babcock.com
Vice Chair/ Chair Elect	Sandi Larson	(865)483-8247	sandi.larson@nuclearassociates.com
Treasurer/ Finance Chair	Robert Maurer	(423)735-5583	rsmaurer@nuclearfuelservices.com
Secretary	Deborah Hill	+44 (1772)-764359	deborah.a.hill@nnl.co.uk
Past Chair (ex officio)	Doug Bowen	(865)576-0315	bowendg@ornl.gov

A total of six out of nine members of the Executive Committee were present. The serving Executive Committee members are as follows, with those not able to participate indicated with an asterisk (*):

Term Ending June of (Year)	Name	Phone	E-mail Address
2013	Nick Brown	(423)753-5519	NWBrown@nuclearfuelservices.com
2013	Adolf Garcia	(208)526-4420	garciaas@id.doe.gov
2013	Chris Robinson	(865)574-8509	robinsonrc@y12.doe.gov
2014	Michael Corum*	(803)873-9591	michael.corum@nuclearassociates.com
2014	Chris Haught*	(865)576-5522	haughtcf@y12.doe.gov
2014	Allison Miller	(505)301-7426	admille@sandia.gov
2015	John Bess	208-526-4375	john.bess@inl.gov
2015	Brian Kiedrowski	505-665-0110	bckiedro@lanl.gov
2015	Thomas Miller*	865-574-9909	tmmiller77@aol.com

Approximately 24 additional NCSD members were present providing broad nuclear industry representation. *{Refer to Appendix A for the Attendee Sign-In Sheets}*

2. Approval of Previous Meeting Minutes

The minutes from the previous 2012 Summer Meeting (in Chicago, IL) were distributed in the meeting for information. The minutes were previously commented on and approved by email



3. Chair's Report

The Chair provided an update on the Division Chairs meeting with the ANS President. Some of the key discussion points were as follows:

- a) There is now no requirement for an NCSD representative to attend ANS HQ twice a year to secure the room allocations for the meetings, as both that duty and the paper reviews will now be conducted electronically.
- b) The criteria for paper summaries have been relaxed to a maximum length of four pages (including references, tables and figures).
- c) More information can now be included on the ANS websites (and hence past presentations are now available on the NCSD website).
- d) From an educational viewpoint, ANS would like to increase the electronic availability of technical information.

4. Vice Chair's Report

The Vice Chair provided an update on general ANS National Organization News. Some of the key discussion points were as follows:

- a) A new Executive Director, Robert (Bob) Fine has recently been appointed. One of his immediate priorities is the overall IT strategy, which will be submitted in June 2013. Transactions are already available on the ANS website; the Strategic Plan will be made available in due course.
- b) Concerns had been raised about the withdrawal of DoE travel funding for the ANS Winter Meeting and hence the impact upon attendance; a letter had been written to the government on behalf of all Divisions to object against this.
- c) The Public Information "Centre for Nuclear Science and Technology Information" was progressing well, with the associated website scheduled to launch on May 1st, 2013. This Centre has been formed to take a proactive position in bringing scientific and technological facts to four targeted audiences: (i) the general public, (ii) the media, (iii) policy makers, and (iv) K-12 classrooms. For example, a training series was being targeted at congressional staff. NCSD members were encouraged to stop at the related ANS booth during the week.

5. Treasurer's Report

In the absence of the Treasurer, the Chair noted that the NCSD Division was in good financial shape with an "Excess Over Budget Funds" figure of \$26,333 (excluding one disbursement of \$2,250 for the NCSD dinner deposit which has not yet been recorded). The Chair noted that this was down in part to relatively little spending by the Division. He also indicated that a limited number of tickets were still available for the NCSD Dinner at Donovan's Prime Seafood on Tuesday evening. *{Refer to Appendix B for the full Treasurer's Report (including Budget Sheets)}*



6. Division Committee Reports

Program Committee: Allison Miller

Allison noted that the Program Committee had convened immediately prior to the Executive Meeting. Detailed minutes are available on request. A full technical program was planned for this week. Additionally, there had been some discussion relating to the proposed Sessions at the 2013 Summer Meeting (in Atlanta, GA) and the 2013 Winter Meeting (in Washington, DC).

Allison raised a concern that the “Data Analysis in Nuclear Criticality Safety – II” Session on Thursday afternoon clashed with the DoE Criticality Safety Support Group (CSSG) meeting. In response, Adolf Garcia noted that there was never an intention for the CSSG meetings to clash with the NCSA activities at the ANS Meetings, and hence both parties should consider this as part of their scheduling of future meetings.

Endowed Scholarship Special Committee: Robert Frost

In the absence of Robert Frost, the Chair noted that the Scholarship Fund was currently at approximately 20% of the \$60,000 Goal Figure. He encouraged all NCSA members to contribute.

Scholarship Committee: Julie Ezold

In the absence of Julie Ezold, Andy Prichard noted that there was a strong reliance on the Professors to continue to ensure that the students nominated for the Scholarship were academically focused on areas of real tangible benefit to the criticality community. Some attendees felt that better communication of the associated Scholarship timescales might help with this process – e.g. Allison Miller noted that there might be a 1st April deadline. Katherin Goluoglu also mentioned that the Education Committee had recently approved a motion (without objection) to include the Scholarship Recipient as a member of the Education Committee for the duration of their award (given that they are ultimately one of the key intended customers of the outputs from the Education Committee). It was recognized that this input might need to be via telecom, in light of the current DoE travel restrictions.

Education Committee: Katherin Goluoglu

Katherin noted that the Education Committee had convened immediately prior to the Executive Meeting. Detailed minutes are available on request. Some of the key discussion points were as follows:

- a) The “Integrating Nuclear Criticality Safety into Design” White Paper would be forwarded onto the NCSA Executive Committee for final approval.
- b) Work had been deliberately stopped on the “Realism” White Paper.
- c) A “Validation and Verification” Tutorial was scheduled for the coming Wednesday in the Hampton Room. Katherin requested that all NCSA members present made a special



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

effort to attend, particularly in light of the reduced DoE site attendance expected at the Meeting.

- d) A Tutorial on the “Basics of Separation Chemistry” (or a similar title) was being planned for the 2013 Winter Meeting (in Washington, DC).
- e) Some discussion took place regarding the potential opportunity to archive both the presentations and video materials associated with the Tutorials / Workshops (e.g. on the NCSD Website); if people needed to pay a small fee to access and listen to the recordings, Katherin felt that any profits could be transferred into the NCSD Pioneer Scholarship fund. An action had been taken at the Education Meeting to raise these issues with ANS HQ.

Membership Committee: Megan Pritchard

Megan noted that she now held a list of all NCSD members and was actively managing it on behalf of the Division.

Publications/Newsletter/Web Site: Larry Wetzel

Larry provided some detailed feedback on both the NCSD Newsletters and the NCSD Website. *{Refer to Appendix C for the associated Publications / Newsletter / Website Information}*

The goal is to publish the NCSD Newsletter within a month of each national meeting. Thanks were given to Mackenzie L. Gorham for producing the previous Summer 2012 Newsletter. All recent Newsletters are available on the NCSD Website.

The NCSD website has been steadily used with typically 40 to 50 visitors per day. Most of the visitors are looking at (i) the presentations from past Meetings, (ii) the Newsletters, and (iii) the White Papers. About 90% of the visits come from within the US, but visits also came from 40 other countries.

Honors and Awards Committee: Maria LeTellier

Both Service and Technical Excellence Awards will be presented at the NCSD Dinner on Tuesday evening. A motion was made and then approved (without objection) for Andy Prichard to take on the Honors and Awards Committee Chair position from Maria LeTellier.

Realism Committee: Donna D’Aquila

No update had been provided by Donna D’Aquila, and no attendees were aware of the latest status. It was noted that the Bylaws would have to be updated if the Realism Committee was dropped.

7. NCSD 2013 Topical Meeting

Lon Paulson announced that the next NCSD Topical Meeting on “Nuclear Criticality Safety in the Modern Era: Raising the Bar” is scheduled to be held in Wilmington, NC from September 29th – October 3rd, 2013. Full details are available on the dedicated NCSD 2013 website



(<http://www.ncsd2013.org>). A full technical program with technical tours was being planned, and Lon was hoping for excellent participation from both the national and international criticality community. The Call for Papers is now out, with Registration opening on December 3rd, 2012 and Electronic Abstract Submission closing by April 2nd, 2013. Approximately \$20K of sponsorship had been secured to date.

In response to a question from Brian Kiedrowski about the absence of an “Experiments” Track, Lon referred to a sentence on the flyer which noted that “*Summaries outside subject of tracks listed will also be considered*”.

Lon also indicated that he would like to request approximately \$2,500 for student travel and living expenses. He noted that the Student Registration Fee was \$300, although that fee would be waived if the student submitted a paper.

8. ICNC 2015 Meeting

The Vice Chair reported that a small organizing group of herself, Cecil Parks and Mikey Brady-Raap had proposed three potential locations for the ICNC 2015 Meeting: (i) San Francisco, CA, (ii) Amelia Island, FL, and (iii) Charlotte, NC. ANS HQ, who will help with the arrangements etc. in lieu of a Local Section, then put out a request for proposals to hotels in these cities. One bid each had subsequently been received back from the latter two locations, with no bids from San Francisco. The group was currently leaning more towards Charlotte because of the close proximity of the Westinghouse and Savannah River sites (for the Technical Tours). September and October dates were being considered but the Executive Committee suggested keeping it in September to reduce the conflict with the ANS Winter Meeting.

9. ANS Student Conference Presentation

Representatives from the ANS 2013 Student Conference Organizing Committee announced that the next conference on the “Public Image of the Nuclear Engineer” is scheduled to be held in Boston, MA from April 4th – April 6th, 2013. Full details are available on the dedicated website (<http://meetings.ans.org/student2013>). The Call for Papers will be out towards the end of November, with technical tracks aligning with the Divisions (and a new Special Track of “Best Student Papers”). They noted that they were expecting 50% of the attendees to be from the international community.

Financial support was being requested, with various options available to the Divisions ranging from (i) supporting a Student Award [\$200], to (ii) securing a booth [\$1,500 minimum], to (iii) securing a technical plenary session [\$2,500 minimum]. John Bess noted that these were a relatively high price, given that the Divisions would also be expected to offer personnel and travel time. The representatives indicated that they were happy to further talk to the Division about their specific requirements.



10. ANS Public Information Committee (PIC)

A representative from the ANS Public Information Committee (PIC) gave a detailed presentation to the Executive Committee on the outreach efforts of the PIC. In concluding, the following were highlighted as potential ways that NCSA members could get involved:

- a) Grassroots Events – Send updates to PICalias@ans.org and let ANS know about your own public outreach. The PIC will promote it through the blog and other means.
- b) Grassroots Slide Sharing – You can also help your colleagues and gain new audience for your work by contributing to our presentation library. The PIC reviews and fact checks member contributions and makes material that is not copyright restricted available through an online library. Check the ANS website for details.
- c) ANS Nuclear Café – Read, help, distribute or write for our blog. <http://ansnuclearcafe.org>
- d) Speakers Bureau – Volunteer to respond to requests for information that come through our outreach department from media, students and community groups by emailing Laura Scheele (lscheele@ans.org) who manages the program.
- e) Internal Coordination – Assign a liaison from this Division to the PIC by sending a note to the Committee Chair. That way we can work together to make sure we have the best information about specialty and identify future communication opportunities.

The Chair indicated that these points would be included in the Winter 2012 Newsletter. Additionally, he indicated that he would provide the names of the Chair, Vice Chair and Program Chair to the PIC Chair.

11. Old Business

A motion was made and then approved (without objection) to approve the Proposed Budget for 2013, subject to the following two minor amendments: (i) all excess profits from the NCSA Dinner would be transferred to the Pioneer Scholarship fund, and (ii) \$2,500 would be assigned to the 2013 NCSA Topical Meeting in the “Student / Young Member Support” section, as requested by Lon Paulson.

The Chair noted that a few minor changes had been made to the “ANS Nuclear Criticality Safety Division Strategic Plan for 2012”, and he was intending to email this out to the Executive Committee for wider consultation in due course. He also notified the Executive Committee members that he would be looking for volunteers to support the various NCSA committees (and would be making his own recommendations).

In light of the earlier discussions relating to the Realism Committee, a motion was made and approved (without objection) to remove the Realism Committee from the NCSA Bylaws.

12. New Business

Andy Prichard reported that he was the new Chair of the EFCOG (Energy Facility Contractors Group) subcommittee on “Criticality Safety”, which had been set-up to facilitate interaction between



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

nuclear safety and criticality safety. He was currently looking at ways of increasing the level of participation in the group, given that the prime aim was to improve the sharing of information. To facilitate this, he was intending to run monthly telecom meetings, issue minutes, send relevant emails etc. Andy was also keen to raise the profile of the upcoming EFCOG Safety Analysis Conference in May 2013, where some of the highlights include (i) a panel session on how the new 3009 will impact upon the CCR, (ii) a session on good practices, (iii) a session on lessons learnt from 1189 implementation, (iv) a management tutorial class, and (v) the scheduling at Lawrence Livermore National Laboratory (LLNL) of a 5 day hands-on training course either immediately before or immediately after the conference. The Nuclear Criticality Safety Program (NCSP) has also asked that the subcommittee looks at individual site issues that they could help with (e.g. training). In closing, Andy was keen to emphasize that the criticality safety challenges between DoE and NRC-regulated sites are generally the same, and that sharing information may help to resolve issues in each others areas. Lon Paulson noted that combined efforts on an ANSI standard relating to Natural Phenomena Hazards (NPH) may be useful.

Adolf Garcia stated that he felt it had become extremely important that the criticality technical community that uses and depends so greatly upon the ICSBEP and IRPhE benchmark data ensured that their Program Managers (both contractors and DoE management) were made equally well aware of their importance, simply because he was concerned that support for them would otherwise disappear. In particular, he believed there was now an urgent need for support to the legacy data side.

13. Adjourn

The Executive Committee Meeting was adjourned on time at approximately 4:30 pm.



APPENDIX A – Attendee Sign-In Sheets for the Executive Committee Meeting (November 2012)

NCS D Executive Meeting Sunday 11th November, 2012

Name	Signature	Organization	Email Address
1. Fred Wismann	<i>[Signature]</i>	SELWICH 1076	dlw1@selwichelec.com
2. John D. Bess	<i>[Signature]</i>	INL	john.bess@inl.gov
3. Lon Paulson	<i>[Signature]</i>	GEH	lon.paulson@ge.com
4. Nicholas Brown	<i>[Signature]</i>	NFS	nbrown@nuclearfuelcycles.com
5. Tom McLaughlin	<i>[Signature]</i>	Consultant	TPM@PPOX.COM
6. Brian Shackelford	<i>[Signature]</i>	NFS	BShackelford@NuclearFuelCycle.com
7. Sandi Larson	<i>[Signature]</i>	NSA	SANDI.LARSON@nuclearprospects.com
8. Elizabeth Miller	<i>[Signature]</i>	SNL	emiller@snl.gov emiller@snl.gov
9. Larry Webster	<i>[Signature]</i>	Bow	lwebster@babcock.com
10. James Totten	<i>[Signature]</i>	U of F	jt519@ufl.edu
11. Kathryn Edugogh	<i>[Signature]</i>	U of F	Kledugogh@mse.ufl.edu
12. Madison Martin	<i>[Signature]</i>	U of F	memartin@ufl.edu
13. Dory Bowen	<i>[Signature]</i>	ORNL	bowendy@ornl.gov
14.			
15.			
16.			
17.			



NCSA Executive Meeting Sunday 11th November, 2012

Name	Signature	Organization	Email Address
1 Lane Paschal		PST	LPASCHAL@comcast.net
2 Kenneth Woods		PST	KCWOODS@CS.COM
3 Mike Brady		PNNL	michael.brady@pnnl.gov
4 H. Lee Paddock		U. Tennessee	hdj@utk.edu
5 Terry Hanks		NSA/CSS/ISSA	terry.hanks@nasa.gov
6 Nandu Ellis		SAIC	ellis_98PA@msn.com
7 Jim Felty	X	SAIC	james.felty@nasa.gov
8 Joe Christensen		DOE-DO	christj@id.doe.gov
9 Rene Sanchez		LANL	rsanchez@lanl.gov
10 Dennis Menard		EMS	d.menard@ems.se
11 Debidas Biswas		LLNL	biswas2@llnl.gov
12 John & Jessica		EMERSON PROCESS SERVICES	JUSTICE@EMERSON.COM
13 Kyla Conall		LLNL	Conall26@llnl.gov
14			
15			
16			
17			



NCSD Executive Meeting Sunday 11th November, 2012

Name	Signature	Organization	Email Address
1. Rob Wilson	<i>Rob Wilson</i>	DOE/EM	robwilson1ran@enr-bc.doe.gov
2. DEBORAH HILL	Deborah Hill	ORNL (UK)	deborah.a.hill@ornl.co.uk
3. Calvin Hopper	<i>Calvin Hopper</i>	ORNL (ret)	hopperc@comcast.net
4. Brian Kiedomuth	<i>Brian Kiedomuth</i>	LANL	bckiedom@lanl.gov
5. R. Chris Robinson	<i>R. Chris Robinson</i>	Y-12 NSC	YCR@Y12.DOE.GOV
6. Adah S Garcia	<i>Adah S Garcia</i>	US DOE-1D	garcima.a@id.doe.gov
7. Ellen Saylor	<i>Ellen Saylor</i>	ORNL	Saylor@ornl.gov
8. Andrew Pichard	<i>Andrew Pichard</i>	PNWL	andrew.pichard@pnl.gov
9.			
10.			
11.			
12.			
13.			
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16.			
17.			



APPENDIX B – Treasurer’s Report

1. The Financial Statement from ANS HQ for August 2012, is shown as Exhibit 1. The main expenses recorded so far this year are \$1250 for student travel and \$2206 for the Pioneer Scholarship Fund.
2. One disbursement of \$2250.00 has been requested in November for the NCSD dinner deposit that has not been recorded.
3. The “Excess over Budget Funds” is \$26,333.
4. The proposed budget for 2013 is attached as Exhibit 2.



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

PAGE 1 of 2

AMERICAN NUCLEAR SOCIETY
 DIVISION FINANCIAL REPORT
 8/31/2012

EXHIBIT 1

NUCLEAR CRITICALITY SAFETY DIVISION 043100	BUDGET 12 MONTHS 2012	ACTUAL 8 MONTHS 2012	PAGE 2 REF.
2012 MEMBER ALLOCATION	1,862	1,862	
DIVISION INCOME			1
Committed funds (scholarship)			
TOTAL REVENUES	1,862	1,862	
BUDGET EXPENSES			
NEWSLETTERS	0	0	2
AWARDS, PLAQUES	1,100	2,256	3
NATIONAL MEETING COSTS	250	0	4
DIVISION OFFICER EXPENSE	0	0	5
STUDENT SUPPORT	1,950	1,250	6
SCHOLARSHIP/NEED FUNDING	3,000	0	7
OTHER EXPENSES	500	0	8
TOTAL EXPENSES	6,800	3,506	
NET SURPLUS/(DEFICIT)	(4,938)	(1,644)	
FUND BALANCE 1/1/12	27,977	27,977	
FUND BALANCE 8/31/12	23,039	26,333	



NUCLEAR CRITICALITY SAFETY DIVISION

043100

1. DIVISION INCOME	0
2. NEWSLETTERS	0
3. AWARDS, PLAQUES	
5/21/12 CROWN TROPHY	50
7/31/12 PIONEERS SCHOLARSHIP	<u>2206</u>
	<u>2256</u>
4. NATIONAL MEETING COSTS	0
5. DIVISION OFFICER EXPENSE	0
6. STUDENT SUPPORT	
5/31/12 STUDENT TRAVEL SUPPORT	1250
	<u>1250</u>
7. SCHOLARSHIP/NEED FUNDING	0
8. OTHER EXPENSES	0



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

NCSD 2013 Proposed Budget

EXHIBIT 2

	2012	2012	2013
	Budgeted	Actual	Proposed
Balance Forward from Previous Year	\$27,977	\$27,977	\$26,333
Budget Funds			
Current Year Member Allocation	\$1,862	\$1,862	\$1,700
NCSD Awards Banquet Sponsorship & Ticket Sales	\$0	\$0	\$0
Other Budget Funds	\$0	\$0	\$0
Remove Committed Pioneer Scholarship Funds	\$0	\$0	\$0
Total Income	\$1,862	\$1,862	\$1,700
Total Funds Available	\$29,839	\$29,839	\$27,459
Budget Expenses			
Newsletters			
Brochure	\$0	\$0	\$0
Awards & Plaques			
Best Paper Awards	(\$100)	\$0	(\$100)
Two NCSD Special Awards	(\$600)	\$0	(\$600)
Miscellaneous Awards & Plaques	(\$200)	(\$50)	(\$200)
Student Paper Awards	(\$200)	\$0	(\$200)
Pioneers Scholarship FD	\$0	(\$2,206)	\$0
National Meeting Costs	(\$250)	\$0	(\$250)
NCSD Awards Banquet Expenditures	\$0	\$0	\$0
Division Officer Expenses	\$0	\$0	\$0
Student / Young Member Support			
Student Travel Support June	(\$500)	(\$1,250)	(\$500)
Student Travel Support November	(\$750)	\$0	(\$750)
Student Conference	(\$700)	\$0	(\$700)
Scholarship/NEED Funding	(\$3,000)	\$0	(\$3,000)
Other Expenses	(\$500)	\$0	(\$500)
Total Expenses	(\$6,800)	(\$3,506)	(\$6,800)
Total Year End Funds	\$23,039	\$26,333	\$20,659



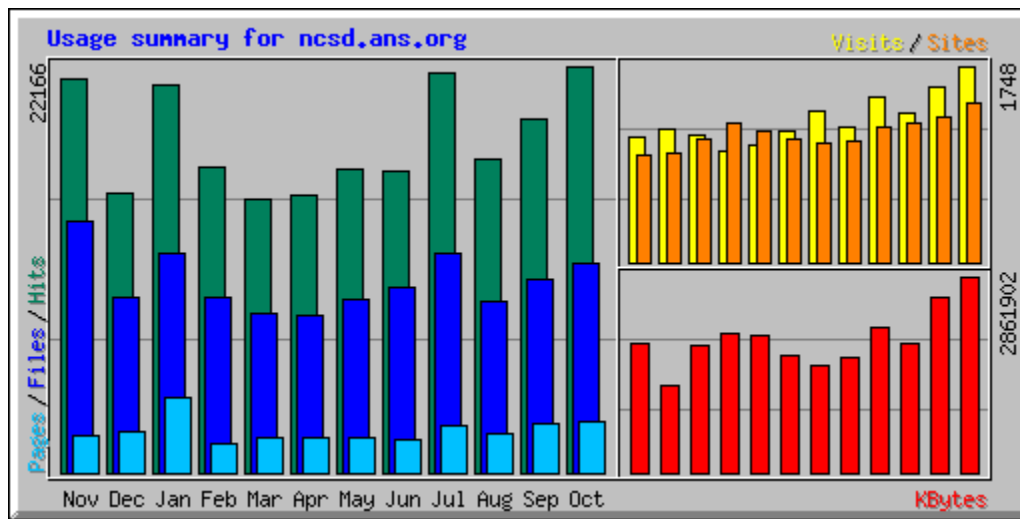
APPENDIX C – Information on Publications / Newsletter / Website

Newsletters

Two newsletters are published each year. They are distributed electronically and posted on the website. The goal is to publish within a month after each national meeting. The editor of the summer newsletter was Mackenzie L. Gorham. The next newsletter should go out in late December.

Website

The website has been used steadily. There are 40 to 50 visitors per day. Most of the visitors are looking at the presentations from past meetings, newsletters and white papers. About 90% of the visits come from the US, but visits also came from 40 other countries.





AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

Summary by Month										
Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
Oct 2012	715	367	90	56	1421	2861902	1748	2810	11391	22166
Sep 2012	642	352	88	51	1290	2548291	1552	2643	10580	19278
Aug 2012	551	302	68	42	1242	1894949	1328	2137	9373	17086
Jul 2012	704	384	81	47	1198	2115078	1479	2535	11917	21831
Jun 2012	546	334	59	39	1084	1686442	1199	1798	10049	16409
May 2012	532	305	63	43	1066	1557643	1338	1960	9481	16519
Apr 2012	502	286	63	38	1095	1706241	1165	1905	8609	15079
Mar 2012	480	278	60	33	1162	1987564	1051	1886	8630	14902
Feb 2012	575	329	55	34	1240	2039956	995	1610	9558	16701
Jan 2012	679	386	131	36	1089	1855196	1132	4073	11967	21075
Dec 2011	491	308	72	38	969	1269861	1193	2242	9571	15248
Nov 2011	716	458	67	36	958	1879127	1108	2016	13749	21485
Totals						23402250	15288	27615	124875	217779



October 2012

Top 30 of 604 Total URLs

#	Hits	KBytes	URL
1	884	57657	/site/hollywood_2011/Gary Harms.pdf
2	546	43	/
3	501	9450	/site/
4	309	58	/favicon.ico
5	276	12397	/site/San_Diego_2010/Forrest_Brown.pdf
6	129	10090	/site/newsletters/2010/NCSD_Newsletter_Winter_2010.pdf
7	124	8507	/site/Washington_2009/Brown_WED-AM.pdf
8	117	206361	/site/washington_2011/mcnp_developments.pdf
9	101	132	/site/cgi-bin/dblinker.cgi
10	92	5471	/site/hollywood_2011/Brian_Kiedrowski.pdf
11	90	1285	/site/governance.html
12	81	1535	/site/whitepapers.html
13	78	8253	/site/atlanta_2009/5_SRNS-E1700-2008-00015-s_Revision_1.pdf
14	78	640	/site/awards.html
15	76	1213	/site/papers_Atlanta_summer2009.html
16	76	1349	/site/scholarship.html
17	69	1167	/site/papers_Washington_winter2011.html
18	68	1399	/site/papers_Chicago_summer2012.html
19	68	782	/site/papers_Las_Vegas_Winter2010.html
20	67	25645	/site/San_Diego_2010/Charlie_Rombough.pdf
21	64	700	/site/newsletter.html
22	64	28148	/site/newsletters/2011/NCSD_Newsletter_Winter_2011.pdf
23	64	756	/site/papers_San_Diego_Annual2010.html
24	53	58104	/site/hollywood_2011/Forrest_Brown_Tu_AM.pdf
25	52	367	/site/pictures_1983.html
26	50	1118	/site/links.html
27	50	554	/site/papers_hollywood_2011.html
28	44	10213	/site/San_Diego_2010/Julie_Johnston.pdf
29	43	3356	/site/meeting_minutes/2005/ncsd_exec5jun2005.pdf
30	41	1073	/site/white_papers/ncsd_accidents_r1a_final.doc



October 2012

Top 20 of 1421 Total Sites									
#	Hits		Files		KBytes		Visits		Hostname
1	2515	11.35%	40	0.35%	4267	0.15%	15	0.86%	gateway-e.doe.gov
2	1196	5.40%	466	4.09%	27359	0.96%	8	0.46%	host-1-1.y12.doe.gov
3	659	2.97%	153	1.34%	10727	0.37%	3	0.17%	juggler.inl.gov
4	611	2.76%	394	3.46%	25132	0.88%	5	0.29%	199.246.255.166
5	604	2.72%	516	4.53%	24870	0.87%	2	0.11%	daoutside.hanford.gov
6	530	2.39%	339	2.98%	21000	0.73%	5	0.29%	bc-proxy-1.sandia.gov
7	480	2.17%	460	4.04%	18049	0.63%	2	0.11%	adsl-76-208-164-167.dsl.lsan03.sbcglobal.net
8	389	1.75%	339	2.98%	28283	0.99%	5	0.29%	bcsg3.ens.ornl.gov
9	362	1.63%	217	1.91%	34711	1.21%	63	3.60%	crawl-66-249-71-2.googlebot.com
10	349	1.57%	331	2.91%	22309	0.78%	2	0.11%	ongles15.intra.cea.fr
11	326	1.47%	268	2.35%	106529	3.72%	77	4.41%	spider-199-21-99-73.yandex.com
12	283	1.28%	229	2.01%	19662	0.69%	2	0.11%	blueone.lanl.gov
13	268	1.21%	158	1.39%	80044	2.80%	0	0.00%	1.219.202.1.static.bjtelecom.net
14	266	1.20%	89	0.78%	6298	0.22%	2	0.11%	130.188.8.27
15	220	0.99%	166	1.46%	25333	0.89%	4	0.23%	fwsm-208-205-39-68.dwgvs.sg.alter.net
16	210	0.95%	198	1.74%	17814	0.62%	13	0.74%	193.57.67.241
17	202	0.91%	98	0.86%	30010	1.05%	2	0.11%	c-50-142-97-101.hsd1.tn.comcast.net
18	200	0.90%	107	0.94%	9182	0.32%	1	0.06%	proxy42.messagelabs.net
19	189	0.85%	132	1.16%	10457	0.37%	4	0.23%	206.47.148.202
20	182	0.82%	85	0.75%	17568	0.61%	38	2.17%	crawl-66-249-73-12.googlebot.com



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

Top 48 of 48 Total Countries							
#	Hits		Files		KBytes		Country
1	6918	31.21%	2722	23.90%	205578	7.18%	US Government
2	5041	22.74%	2816	24.72%	1121237	39.18%	US Commercial
3	3956	17.85%	3036	26.65%	471108	16.46%	Network
4	3821	17.24%	2766	24.28%	574158	20.06%	Unresolved/Unknown
5	609	2.75%	562	4.93%	63850	2.23%	France
6	235	1.06%	184	1.62%	110901	3.88%	Russian Federation
7	200	0.90%	169	1.48%	27533	0.96%	Germany
8	189	0.85%	183	1.61%	14263	0.50%	Brazil
9	172	0.78%	145	1.27%	12045	0.42%	India
10	150	0.68%	104	0.91%	9488	0.33%	Sweden
11	149	0.67%	94	0.83%	8073	0.28%	Non-Profit Organization
12	128	0.58%	99	0.87%	45653	1.60%	US Educational
13	117	0.53%	104	0.91%	32874	1.15%	Israel
14	93	0.42%	85	0.75%	19644	0.69%	Japan
15	86	0.39%	84	0.74%	5487	0.19%	Yemen
16	69	0.31%	21	0.18%	30214	1.06%	Ukraine
17	29	0.13%	21	0.18%	31129	1.09%	Belgium
18	27	0.12%	14	0.12%	1677	0.06%	United Kingdom
19	26	0.12%	14	0.12%	6510	0.23%	Czech Republic
20	26	0.12%	26	0.23%	2510	0.09%	Poland
21	14	0.06%	10	0.09%	4250	0.15%	Viet Nam
22	12	0.05%	9	0.08%	2783	0.10%	Canada
23	12	0.05%	8	0.07%	22763	0.80%	Korea (South)
24	11	0.05%	9	0.08%	3948	0.14%	Pakistan
25	9	0.04%	8	0.07%	4880	0.17%	China
26	9	0.04%	6	0.05%	8691	0.30%	Slovenia
27	8	0.04%	7	0.06%	2257	0.08%	Italy
28	5	0.02%	4	0.04%	4037	0.14%	Australia
29	4	0.02%	3	0.03%	313	0.01%	Switzerland
30	4	0.02%	1	0.01%	470	0.02%	Netherlands
31	4	0.02%	3	0.03%	396	0.01%	Portugal
32	3	0.01%	3	0.03%	1018	0.04%	US Military
33	3	0.01%	3	0.03%	343	0.01%	Indonesia
34	3	0.01%	2	0.02%	112	0.00%	South Africa
35	2	0.01%	2	0.02%	20	0.00%	Old style Arpanet (arpa)
36	2	0.01%	2	0.02%	986	0.03%	Austria



AMERICAN NUCLEAR SOCIETY

Nuclear Criticality Safety Division

Top 48 of 48 Total Countries							
#	Hits	Files	KBytes	Country			
37	2	0.01%	2	0.02%	5649	0.20%	Belarus
38	2	0.01%	2	0.02%	4	0.00%	Jordan
39	2	0.01%	2	0.02%	481	0.02%	New Zealand (Aotearoa)
40	2	0.01%	2	0.02%	476	0.02%	Singapore
41	2	0.01%	1	0.01%	1110	0.04%	Thailand
42	2	0.01%	2	0.02%	685	0.02%	Turkey
43	2	0.01%	1	0.01%	0	0.00%	Taiwan
44	2	0.01%	2	0.02%	345	0.01%	United States
45	1	0.00%	0	0.00%	414	0.01%	Argentina
46	1	0.00%	1	0.01%	16	0.00%	Latvia
47	1	0.00%	1	0.01%	1146	0.04%	Mexico
48	1	0.00%	1	0.01%	378	0.01%	Slovak Republic