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Description of document: **Records related to several National Security Agency (NSA) Learned Organizations, 2010**

Requested date: 05-June-2008

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Source of document: National Security Agency
Attn: FOIA/PA Office (DJP4)
9800 Savage Road, Suite 6248
Ft. George G. Meade, MD 20755-6248
Fax: 443-479-3612
Online form: [Here](#)

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NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
FORT GEORGE G. MEADE, MARYLAND 20755-6000

FOIA Case: 56156A
26 April 2010

This is the final response to your Freedom of Information Act (FOIA) request of 5 June 2008, which was received by this office on 12 June 2008, for "a copy of the organizational description(s), organizational history, a sample copy of the newsletter, and a sample copy of the journal published in paper or online by each of the following NSA Learned Organizations:

- Collection Association (CA)
- Communications Analysis Association (CAA)
- Crypto-Linguistic Association (CLA)
- Crypto-Mathematics Institute (CMI)
- Information Technology Association (ITA)
- International Affairs Institute (IAI)
- KRYPTOS Society (KS)
- NSA Computer Science Society
- Pen & Cursor Society (P&CS)
- Signals Analysis Association (SAA)
- Women in Mathematics Society (WIMS)."

In our initial response to your request, we provided the status of which organizations are truly Learned Organizations and the status of newsletters, histories and journals for those Learned Organizations. A copy of your request is enclosed. Your request has been processed under the FOIA and the responsive documents are enclosed. Certain information, however, has been deleted from the enclosures.

Some of the information deleted from the documents was found to be currently and properly classified in accordance with Executive Order 12958, as amended. This information meets the criteria for classification as set forth in Subparagraph (c) of Section 1.4 and remains classified TOP SECRET, SECRET and CONFIDENTIAL as provided in Section 1.2 of the Executive Order. The information is classified because its disclosure could reasonably be expected to cause exceptionally grave damage to the national security. Because the information is currently and properly classified, it is exempt from disclosure pursuant to the first exemption of the FOIA (5 U.S.C. Section 552(b)(1)).

In addition, this Agency is authorized by various statutes to protect certain information concerning its activities. We have determined that such information

exists in these documents. Accordingly, those portions are exempt from disclosure pursuant to the third exemption of the FOIA which provides for the withholding of information specifically protected from disclosure by statute. The specific statutes applicable in this case are Title 18 U.S. Code 798; Title 50 U.S. Code 403-1(i); and Section 6, Public Law 86-36 (50 U.S. Code 402 note).

The Initial Denial Authority for NSA information is the Deputy Associate Director for Policy and Records, Diane M. Janosek. Since these deletions may be construed as a partial denial of your request, you are hereby advised of this Agency's appeal procedures. Any person denied access to information may file an appeal to the NSA/CSS Freedom of Information Act Appeal Authority. The appeal must be postmarked no later than 60 calendar days from the date of the initial denial letter. The appeal shall be in writing addressed to the NSA/CSS FOIA Appeal Authority (DJP4), National Security Agency, 9800 Savage Road STE 6248, Fort George G. Meade, MD 20755-6248. The appeal shall reference the initial denial of access and shall contain, in sufficient detail and particularity, the grounds upon which the requester believes release of the information is required. The NSA/CSS Appeal Authority will endeavor to respond to the appeal within 20 working days after receipt, absent any unusual circumstances.

Sincerely,

A handwritten signature in black ink, appearing to read "Pamela N. Phillips", is centered on the page.

PAMELA N. PHILLIPS
Chief
FOIA/PA Office

Encls:
a/s

UNCLASSIFIED//~~FOR OFFICIAL USE ONLY~~**What is the IAI?**

In 1971, a small group of energetic individuals initiated the International Affairs Institute (IAI), with the intent of presenting to the NSA populace a variety of distinguished speakers from the fields of business, politics, the military, and academia.

The tradition has continued through the years and has served to promote an interest in international events and to provide unique insights into those events.

Today, as a member of NSA's Council of Learned Organizations, the IAI organizes lectures on international issues with an eye toward both current and historical perspectives. It also encourages the writing and publication of papers by the membership on subjects pertinent to the international arena.

How do I join?

(U//~~FOUO~~) Membership in the IAI is open to civilian and military personnel of the U.S. Cryptologic Community and collaborating agencies resident for duty at NSA.

(U) In order to join, fill out the Application Form, print it, and send it with ten dollars to cover two years' dues to: [redacted] Suite 6225, Room 2B2024.

(b) (3) - P.L. 86-36

(U) For more information, please contact the Membership Committee Chair.

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(U) News & Announcements

There are currently no new announcements

[++ View archived announcements](#)

(U) About Us

(U) Created in 1965, the Crypto-Linguistic Association (CLA) is an NSA-based professional organization that supports the continuing development and advancement of Agency language analysts, and engages its members in language-related activities. The first president of CLA was Dr. Sydney Jaffe, for whom the Jaffe Award is named.

[++ Learn more about what we do](#)

[++ Join Us!](#)

(U) CLA Officers

President - (C) [REDACTED]
President-Elect - (C) [REDACTED]
Secretary - (C) [REDACTED]
Treasurer - (C) [REDACTED]

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[++ Previous Presidents](#)

[++ Other CLA Board Members](#)

(U) CLA International Cookbook



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(U) What We Do

(U) The CLA sponsors many programs throughout the year:

- four annual awards for language analysts named after four previous NSAers who made significant contributions to the cryptologic language effort: Sydney Jaffe, Norman Wild, Capt Joseph Rochefort, Col Alva Lasswell
- one annual award to the CLA Member who has most contributed to the cryptologic effort: named for Harry Rashbaum
- a variety of presentations on topics of interest to anyone interested in language
- an annual CLA banquet, with a special guest speaker; members usually enjoy at least \$1.00 off
- annual Foreign Language Conference, a week full of presentations and activities
- foreign language film festivals
- an ever-growing film library of foreign films, DVD's and audio books from which only members may borrow to help strengthen your language skills
- field trips to intelligence agencies or other relative places of interest for language analysts
- great networking opportunities as well; you get acquainted with your fellow NSA language analysts and learn about various resources available to language analysts inside and outside the NSA

(U) The CLA also sponsors conversation groups that allows language analysts to come together and use their language to help maintain their level of knowledge.

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6/17/2008

Classification: ~~CONFIDENTIAL~~ [REDACTED]

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1. CLA Award Winners
2. Library of Congress Offerings
3. Cherokee Chat
4. Language Presidential Trivia
5. Coming Film Attractions
6. CLA Open Forum
7. Question for the Editor

[REDACTED]
CLArion Editor

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1. CLA Award Winners

(U//~~FOUO~~) The CLA Awards Banquet, featuring a brief historical talk by NSA Language Wall of Honor Recipient MILTON ZASLOW, will be held on Wednesday 16 July at 1000 in the Canine Suite Annex, near Starbucks in the OPS2A cafeteria. The winners are as follows:

(U//~~FOUO~~) Lasswell (military mid-career award): [REDACTED] USAF

(U//~~FOUO~~) Wild (civilian mid-career): [REDACTED]

(C//REL TO USA, FVEY) Jaffe (senior civilian): [REDACTED]

(U//~~FOUO~~) Rochefort (senior military) none this year

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(U//~~FOUO~~) Being on the board, I can tell you that this gets harder every year since we get lots of candidates. The Rashbaum (CLA) winner has yet to be announced.

2. Library of Congress Offerings

(U//~~FOUO~~) Today one of the Chinese GLC classes (CHIN2099JJ) went to the Library of Congress and received a briefing IN CHINESE on its holdings, saw some of its holdings (old, old stuff) and also got a briefing on Tibetan holdings (briefing in English). The reason I bring this up is that these briefings are given apparently in SEVERAL LANGUAGES. For those of you language teachers (or anyone else) who are looking for an interesting and valuable field trip, you may want to keep this one in mind. Please be aware that there are some administrative hurdles apparently with contractors. Said another way, this might be more suited for cleared personnel.

(C//REL) [REDACTED] (the organizer of today's trip) or myself for POC information. I also have brochures for anyone interested in them.

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3. Cherokee Chat

(U//~~FOUO~~) The National Museum of Language will be hosting a presentation on the Cherokee language (its syllabary, history, structure, impact, legacy) by Carrie Clarady, a linguist with a research background in Stress and language performance; Experimental semantics and

pragmatics, and Technology-mediated discourse. This will happen on Sunday 22 June at 1500 at 7100 Baltimore Avenue (site of the National Museum of Language) in College Park, MD. The world's writing systems will first be discussed. This talk is free and open to the public but reservations are requested because of limited seating. Call 301-864-7071, try info@languagemuseum.org or just contact me if you want to attend.

(U//~~FOUO~~) FYI--If you would like to see the museum, here is your chance "to kill two birds with one stone." If you would like the last museum newsletter by the way, just contact me (I am the editor and have them to give away).

4. Language Presidential Trivia

(U) Which president got into a shouting match with a Spanish colonel, creating havoc for their translators?

- A. Andrew Jackson
- B. James Polk
- C. William McKinley
- D. Benjamin Harrison
- E. William Henry Harrison

(U) The answer is at the end of the issue

5. Coming Film Attractions

Tuesday 24 June Pan's Labyrinth 1100 OPS2B4118#4 (Spanish, English Subtitles)

Wednesday 25 June Maangamizi he Ancient One 1100 OPS2B4118 #4 (Swahili, English Subtitles)

Thursday 26 June Jan Dara 1100 3W083-1 (Thai and Korean, English Subtitles)

(U//~~FOUO~~) Everyone is invited--bring your lunch (but not your supper!))

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6. CLA Open Forum

(U//~~REL~~) The CLA Open Forum is set for 26 June @0830-0930 in HQ 9A135. Likely participants are OGC

representative--all major players in CLA joining ADET. Come and find out about the new CLA.

7. Question for the Editor

Q: (U//~~FOUO~~) Do you ever turn down an item or do you run everything?

A: (U//~~FOUO~~) Yes, I will turn down an item if (1) it is irrelevant to the language field, e.g., somebody wanting to sell their car; and (2) it is controversial, e.g., somebody going verbally ballistic about FLIP policy. You can make the case that the latter is a legitimate purpose of CLA and this newsletter--as an advocate for the language analyst, the otherwise unheard voice. However, I tend to avoid these types of items (they usually come back to bite you) and keep my policy views to myself. This is my call--praise me or attack me for it. I hope that I have answered the question. Thanks. GJN

Answer to trivia question

(U) Which president got into a shouting match with a Spanish colonel, creating havoc for their translators?

ANSWER A. Andrew Jackson (7th President, 1829-1837)

B.. James Polk

C. William McKinley

D.Benjamin Harrison

E.William Henry Harrison

(U) He once got into a shouting match with a Spanish colonel over Florida--The Spanish owned it then and Jackson, not yet president and an aggressive military leader, tried to change this with military force. The translators had a hard time keeping up with the insults Jackson and the colonel threw at each other.

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POC: [REDACTED]

Last update: 12/29/2000 15:14:26
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IA TIP OF THE DAY



28 December 2000

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(U//~~FOUO~~) Thanks to [REDACTED]

and [REDACTED]

**for providing
valuable information that led to
today's TOTD!**

SUBJECT: Communications Analysis Association (CAA)

(U//~~FOUO~~) The purpose of the CAA -- an NSA Learned

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Declassified and approved for Release by
NSA on 04-26-2010, FOIA Case # 56156

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Organization -- is to provide a forum for the exchange of information related to the field of communications analysis, to assist members and non-members by developing possible solutions to operational problems, and to promote personal and professional expertise in the field of communications analysis.

(U//~~FOUO~~) The CAA encourages and facilitates professional contact among members and between members and specialists in related fields; organizes and conducts lectures, workshops, and other fora on subjects of interest; encourages the writing of technical papers to further document the analytic disciplines; and affords recognition to those who advance the art and science of communications analysis.

(U//~~FOUO~~) If you'd like more information, visit the CAA HomePage by typing "go caa" in your web browser's location field or visiting the following:



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(~~C//CCO~~) The CAA maintains a subscription list to help Agency analysts keep current on communications analysis news and issues. If you'd like to subscribe (sorry, no contractors), visit the following location:



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Do you have a Tip of the Day or favorite website you'd like to share with your colleagues?

Please send it to:

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Visit the IA Tip of the Day Homepage!
Type "go iatod" in your web browser, or visit:

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DERIVED FROM: NSA/CSS MANUAL 123-2
DATED: 24 FEB 1998
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From: [redacted]@nsa Fri May 24 10:07:46 1996

Date: Fri, 24 May 1996 10:05:17 -0400

From: [redacted]@nsa>

Sender: [redacted]@nsa

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Reply-To: [redacted]@nsa

To: caa@nsa

Subject: CAA COMMAND - Corrected Version

Classification: ~~SECRET SPOKE~~Referred to SID who recommended referring also to
Research and CCH.

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CC	OO OO	MM	MM	MM	MM	AAAAAAA	NN	NN	DD DD
CC	OO OO	MM	M	MM	MM	AAA AAA	NN	NNNN	DD DD
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THE COMMUNICATIONS ANALYSIS Digest/MONTHLY NEWSLETTER

APRIL/May 1996

VOLUME 2, NO. 4

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 CAA Home Page [THIS SECTION WAS ACCIDENTALLY OMITTED BEFORE]
 Fuzzy Vision and the CAA
 Style Manual Available on the Web
 Membership Form [at the very end]

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Notes/Minutes from the CAA Council Meeting

(FOUO) The CAA Council met on 11 April 1996 in 2N001.

[redacted] (CAA President), [redacted]
 [redacted] were present, along with [redacted] of the program committee
 and [redacted]. The meeting began with Karl's demonstration of a
 home page for CAA. He prepared Mosaic and Netscape versions, and
 showed how it can be used to hold COMMAND, lists of CAA officers and
 members, association by-laws, and links to related pages.

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(FOUO) Next, the Council discussed what to do regarding [REDACTED] departure from the Council and holding a mid-term election. One option, adding additional members-at-large, would require a change to the by-laws and take a long time. On the other hand, Article XV of the by-laws allows the council to adopt special rules, and this would authorize us to hold an election for a member-at-large who would serve out Judy's remaining term and serve as treasurer. Dale will take action on this.

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[REDACTED]

Membership - Who's Been Joining CAA?

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(S-CCQ) The CAA membership roster has topped 100! We currently have 105 members from home and abroad. There are 27 field site members with the largest contingent [REDACTED] Other field sites' members come from [REDACTED] We also have members at [REDACTED] The CAA encourages people at field sites to join, and is looking for innovative ideas to make their participation active. Videos of CAA and CAA-related meetings are currently being prepared for shipment to field sites.

(S) Here at HQS membership is spread across all organizations with the most members in [REDACTED] respectively). Please be sure to update your organizational information as it changes. I know there have been a number of shifts from B to W Group organizations.

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[REDACTED] Membership Chairman

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Call for the Quarterly

WE STILL NEED YOU!!!

(FOUO) Do you have an idea for an article you'd like to write for the next Quarterly? Thoughts on the analytical process? Book reviews? If you have ideas you'd like to share with fellow CAA members, The COMMAND Quarterly is the venue for you! Please send your articles or ideas to [REDACTED] or any member of the CAA Newsletter Staff. ASCII (textedit) text is preferred, but Framemaker is acceptable. Please include the appropriate security classification markings in your article(s).

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(FOUO) Also, announcements, comments, and articles of interest for the monthly e-mail COMMAND newsletter are always welcome. Since this is sent out in ASCII format, ASCII submissions are preferred. Framemaker, if the document is simple, is acceptable, but we've discovered that the CLEANEX conversion program is limited, in converting to ASCII, so we can't promise that a Framemaker document will be included.

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Newsletter Staff Member

(FOUO) A reminder to all CAA members and caa@nsa subscribers. All articles, including opinion and commentary, are welcome in COMMAND. We especially need articles for the Summer hardcopy. Send your input to

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There's No Place Like Home

The new CAA home page can be found at:

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Come visit our home page and see what's there! Also, if you have any questions about the webpage, please feel free to contact 963-6886s.

CAA Home Page

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(FOUO) Have you checked out the CAA Home page yet? You can find it under the Learned Organizations with either a Netscape or Mosaic browser. Thanks to SARC, for designing and setting up the home page.

(FOUO) Under the home page you'll find postings for upcoming events, the monthly newsletters, CAA committees and members, the bylaws, the membership roster, and the council members. Highlighting a council member's name brings up a mail tool - write to us with your suggestions and comments!

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(C-CCO) There is also a Related Links button with current links to the home pages. We've received suggestions for links to the TA and CA glossaries. Do you have any others?

(C-CCO) And finally since the 'where did the guhor stick' question comes up once a year, we're posting Cryptolog article on the guhor stick here for posterity and next year's question. Any other related items are welcome.

(FOUO) CJ was going to get you something about needing volunteers to work on our bulletin board case. If he didn't let me know. Could be we need a real publicity committee.

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Fuzzy Vision and the CAA

(U) Why was the CAA resurrected? Because the Hubble Telescope's

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optics were flawed.

(U) You're probably thinking that the above observation needs some expansion. A few years ago, I attended one of the monthly Crypto-Mathematics Institute's talks in the Friedman Auditorium. The guest speaker was from NASA, and he discussed the statistical methods that they were using to process the data downlinked from the Hubble Space Telescope's damaged optics.

(U) As I sat there, I reflected on the fact that here were many of NSA's professional mathematicians listening to an outside mathematician discuss solving a problem. I wondered why there was no professional association for analysts here, one that would be a forum for discussing approaches to analytic problems. After asking around, I learned that CAA had existed in the past. Interest in resurrecting CAA began, and now here we are.

(~~C-CCO~~) CAA first and foremost is a forum for professional analysts. CAA should look to the needs of all analysts, whether they are [REDACTED] We can learn (1) from each other's approaches, techniques, and successes. NSA does not (b) (3) - 50 USC 403 own a space telescope, but the mathematicians who attended that CMI (b) (3) - P.L. 86-36 talk certainly learned about techniques and approaches. Likewise, we can all become better analysts by welcoming one another within CAA and learning from one another as professional analysts.

- [REDACTED] (b) (3) - P.L. 86-36

Style Manual Available on the Web

(~~FOUO~~) The new edition of the "SIGINT Reporter's Style & Usage Manual" is now available on WEBWORLD. You can access it through the P05 home page. This edition outlines the "house style" for serialized reports produced in the Operations Directorate. While anyone is welcome to consult it and follow its guidance where appropriate, it is not intended to be THE agency document on all kinds of writing.

- [REDACTED] P0521

Newsletter Staff

[REDACTED] (b) (3) - P.L. 86-36

CAA Council

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President:

[Redacted]

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Members-at-Large:

[Redacted]

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Please send dues (\$5.00 for one year, \$12.00 for three years) to
Treasurer [Redacted] B44, HQ6A114, 963-7381. Make checks payable to
"Communications Analysis Association". Charter membership is good
through October 1996, and the three year membership is good through
October 1998. [Remember, the dues are waived for field sites.]

Name: _____

Org/Bldg: _____

Email address: _____

Phone numbers: _____ (s) _____ (b)

I am interested in the following areas of analysis (Please circle one
or more):

Technical Writing

Technologies (Current & Future)

Analytic Techniques

Teaching Analysis

(Optional) I am interested in working with the following committees:

___ Membership ___ Program ___ Publicity

___ Newsletter ___ Developing Workshops

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[Redacted]

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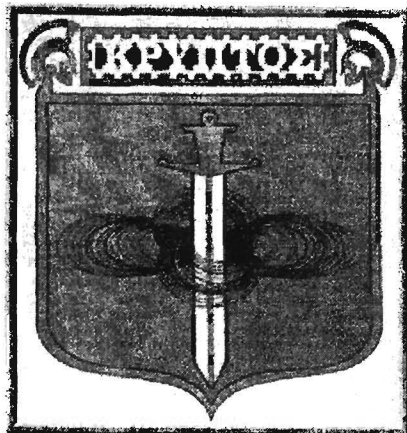


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(C) POC: [redacted]@nsa, info
(U) Last Modified: 06/16/2008 08:10:05
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(U) Curious about the KRYPTOS Crest click here for more details



(U) WHO are we?

The *KRYPTOS Society* was established in 1981 to promote interest in cryptanalysis, to provide a focal point for the fields of common interest to cryptanalysts of the National Security Agency, and to promote excellence in the cryptologic community.

NEW: The 2008 GCHO Easter Teaser will be out any day now. They (and we) are hoping for a strong showing of NSA entries. Best of luck!

NEW: As special incentive to join KRYPTOS we are now offering an online Membership Status checking tool. Join or renew your KRYPTOS membership now and you'll get a much more pleasant response from our online service!
This service brought to you by the generosity of the CMI webmasters

Please remember to submit candidates for your favorite awards and contests!
KRYPTOS is currently accepting nominations for:
KRYPTOS Cryptanalyst of the Quarter

- NEW:** KRYPTOS Technical Talk Contest deadline June 13, 2008
- NEW:** KRYPTOS Literature Contest deadline July 31, 2008
- NEW:** Peter Jenks Award deadline June 30, 2008

- ✱ Norman Roberts Award EXTENDED TO: deadline July 31, 2008
- ✱ KRYPTOS Distinguished Members deadline June 30, 2008

Do you enjoy the services and events provided by the KRYPTOS society? Would you like to help create and develop those events for your fellow members?

Here's your chance to volunteer as one of the KRYPTOS committee chairs.

Want to be notified when these pages update? Try this: Webeyes Watch If you want more info on Webeyes or to add additional pages use 'go webeyes' in your browser url window or use this link WEBEYES.

(U) WHAT do we DO?

The Society promotes professionalism in cryptanalysis by:

- sponsoring talks of general interest by both Agency and outside speakers at its quarterly meetings. Historical list of tech talks
- sponsoring several awards for outstanding work in the field of cryptanalysis.
- holding an annual luncheon in the fall. At this event, a highlight of the KRYPTOS year, members of the Society and their guests gather at a local restaurant to enjoy lunch, socialize, and to collectively recognize professional achievements.
- co-sponsoring social events with the Crypto-Mathematics Institute which give analysts in two closely related disciplines a chance to meet and compete at play.
- recognizing sustained excellence in the cryptanalytic field through selection of Distinguished Members of the KRYPTOS Society. The Distinguished Members are inducted at the annual luncheon. The guidelines and timeline for selection are now available.

(U) More Information:

- Latest Tales of the KRYPT (Our Newsletter)
- The Mausoleum of old "KRYPTs"
- Council Members
- Committee Chairs and Terms
- Historic Treasury Report
- Bylaws
- Council Minutes
- Membership Information
- Retirement Information
- Cryptanalyst of the Quarter Award

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- KRYPTOS sponsored puzzles
- Cool KRYPTOS gear!
- KRYPTOS Photo Gallery

(U) Also check out our 2nd party partners:

CSEC

GCHQ

SOCKS - the SOuthern Chapter of Kryptos Society



(U) Other Home Pages of Interest:

- CA Career Panel
- Learned Organizations



NSA Home Page

- SID Home Page

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Tales of the Krypt - November 2003

(U//FOUO) This is a special issue of Tales of the Krypt devoted to the speeches and awards from the annual KRYPTOS luncheon, held at Club Meade on 23 October 2003.

- Remarks by [redacted] KRYPTOS President
- Literature Winners
- KRYPTOS Talk Contest Winners
- Peter Jenks Award
- Norman Roberts Award
- New Distinguished Members

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Remarks by [redacted] KRYPTOS President

(U) I want to welcome everyone to the 2003 KRYPTOS luncheon. I've ended up with the honor of serving as MC for 2 years running, but I promise that there will be a fresh face next year, or at least a different face. Last year we moved our luncheon up a couple of weeks to avoid a conflict with the Agency's 50th anniversary. This year, we moved our luncheon back to the traditional time. As it turns out, we ended up with 2 conflicts: ACE 2003 is at Princeton this week and some members of our community are receiving awards today at an unnamed agency across the river. Fortunately we still ended up with a good turnout, with a count of approximately 100. I want to thank [redacted] and [redacted] for organizing today's luncheon.

(b) (3) - P.L. 86-36

(U) 2003 has been another a successful year for KRYPTOS and our Central Chapter. Our membership currently stands at [redacted] members. The last number I had from the Cheltenham chapter was [redacted] and CSE is up to [redacted] members. I don't have the membership numbers for the Southern Chapter, but the total membership for all chapters should be around [redacted]. This doesn't include our retired members who are here in good numbers today. This year we have again sponsored an increasing number of technical talks, with seven talks in the Friedman auditorium to date, and we have at least one more talk scheduled.

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(U) Our first presentations today will be the winners of our literature contest. [redacted]

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[redacted] chaired our literature competition and will announce the results.

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(U) Next up we have [redacted] to announce the results of our KRYPTOS Talk Competition.

(U) The KRYPTOS 2003 Peter Jenks recipient is [redacted] The Peter Jenks Award is given in recognition of exceptional service and contributions to the CA community.

(U) In recognition of Norman Roberts' talent for nurturing the skills of junior cryptanalysts, the KRYPTOS Society established the Roberts Award in 1991. The award is presented annually to a junior analyst who has made an outstanding cryptanalytic contribution. This year we are honoring two unior analysts. The KRYPTOS 2003 Norman Roberts award honorable mention is [redacted] The KRYPTOS 2003 Norman Roberts award winner is [redacted] [redacted] is here today to represent GCHQ to present the awards.

(b) (3) - P.L. 86-36

(U) Last year we recognized both the 2001 and 2002 Distinguished Members. Two of our 2001 Distinguished Members were unable to attend last year's luncheon but are here today: [redacted]

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(U) We now come to our 2003 Distinguished Members. Each chapter is responsible for selecting the Distinguished members from its chapter.

(U) GCHQ 2003 Distinguished Members:

- [redacted]

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(U) NSA 2003 Distinguished Members:

- [redacted]

This concludes today's festivities.

(U) Literature Contest Results

(U//FOUO) [redacted] presented the literature contest results, though the text given here is the classified version and includes the true names of all of the papers. In the live presentation, Tammy pointed out that substitutions had been done within the titles. For example, one winner wrote on the topic "Fast Identification of Particular Features in a Specific Application Generated by a Particular Algorithm". (See below for the real title, unless Ken has declared the title to be not only classified but also [redacted])

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(U//FOUO) I am quite happy to report the results of the 2003 KRYPTOS Literature Contest. This year we received 15 entries and our team of judges worked very hard to select the best from this field of high quality papers. We would like to thank those who were willing to take on the judging responsibilities.

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- From GCHO: [redacted]
- from CSE: [redacted] and [redacted]
- from NSA: [redacted]

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(b) (3) - 18 USC 798
(b) (3) - P.L. 86-36

(TS//SI) Our first award today is for Honorable Mention: This paper was recognized by all the judges as a solidly written description of classic cryptanalysis. I am happy to award Honorable Mention to [redacted] GCHQ, for his paper [redacted].
[redacted] Accepting for Tim today is [redacted] UK Liaison Officer.

(U//FOUO) Our next awards are slightly unusual and they highlight the calibre of this year's submissions and the challenge faced by the judges to differentiate between such high quality work. When the first round of voting was completed, 3 papers had earned the same top score. So, of course, we had a tie-breaker vote. Following that vote, those 3 papers were still tied. So, after consultation with our illustrious President, [redacted] it gives me great pleasure to award first place to *all* of the following:

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(U//FOUO) Our first 1st place winner is [redacted] NSA, for his paper documenting a diagnostic success entitled [redacted]. Tom is unable to be here today as he is at another intelligence agency receiving *another* award!

(TS//SI) Our second 1st place winning paper was a joint paper written by [redacted] NSA, and [redacted] NSA, entitled [redacted].
[redacted] Accepting the award today is [redacted]

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(C) Our final 1st place winner documents another excellent diagnosis success. I had the interesting opportunity to review this paper 3 times as the work featured in it was also presented at this year's [redacted] conference and the paper was submitted to the CA Technical Paper Review Board where it was very well received. The winner is [redacted] for his paper entitled [redacted]

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(b) (3) - 50 USC 403
(b) (3) - 18 USC 798
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(U) KRYPTOS Talk Contest Results

(U//FOUO) The 2003 KRYPTOS technical talk competition was again a nice success, with 13 entries. This sort of thing doesn't get done without the help of many folks so thanks to our contacts and judges from CSE and GCHQ, and from NSA thank you to our judges [redacted]

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(b) (3) - P.L. 86-36

(S) Third place - Described as a very hands on type of presentation, given in a clear and well paced manner, the third place talk was on work performed during SAWUNEH. The goals for the workshop on [redacted] were presented, along with the weaknesses discovered and how they differed from good practices. For making the difficult look easy, for being informative, organized, and concise, KRYPTOS is happy to give third place to [redacted] of CSE.

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(U//FOUO) Second place - An excellent walk through a pretty impressive piece of diagnostic work, the second place talk delivered an explanation in a clear and very entertaining way that allowed the audience to follow the development of the solution. It

(b) (3) - P.L. 86-36

started with good background, it incorporated other problems that were related, and nicely highlighted characteristics of the system that were key to the solution. Diagnosis is not an easy task, and it is even harder to explain. [redacted] made it user friendly and the audience got an appreciation of the effort in her talk on [redacted] and for that, KRYPTOS is honored to award second place in this years competition.

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(U//REL) (U//FOUO) First place - Describing a complex problem in a straight forward and easy to follow way is hard to do. Our first place talk is a brilliant exposé on how to take advantage of a vulnerability from understanding that vulnerability, [redacted] It was well organized, had just enough detail and at the right level for the audience, and made good use of PowerPoint animation to enhance the processes related to the problem. For their talk on [redacted] and [redacted] are awarded the 1st place prize for the 2003 KRYPTOS technical talk competition.

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(U) Peter Jenks Award

(U//FOUO) Peter Jenks Award - [redacted]

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(U//FOUO) Since first becoming a team chief more than 20 years ago, Pat has led teams, branches, [redacted] and divisions. She has worked with hundreds of cryptanalysts and mathematicians, from interns and new direct hires to the most senior technical employees of the Agency and its partners, and has impressed all of them with her work ethic, dedication and knowledge. Most of her early technical experience was in the field of diagnosis, but more recently she has addressed new technical challenges and shared this knowledge with others.

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(U//FOUO) When the leaders of the former Z Group decided in 1996 to establish [redacted] to do research, Pat was chosen to manage this program and was co-leader of the first [redacted] In the nearly 7 years since, the [redacted] program has grown tremendously and has been spectacularly successful. At the moment the [redacted] such [redacted] is getting off the ground. I can't get into all the pod topics at this forum, but needless to say they have covered a wide range of cryptanalytic problems.

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(U//FOUO) The [redacted] have started new branches, new missions, and launched technical and management careers. Pat is uniquely responsible for this. [redacted]

[redacted]

program well!!

(U//FOUO) In addition, Pat served on the CA Skill Community Panel, the Panel's Technical Paper Evaluation Board, and currently interviews applicants for the CA intern program. All who know Pat and have worked directly with her know that she is a very strong advocate for the people she supervises and for the cryptanalytic community. She is very deserving of this award.

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(U) Norman Roberts Award

(U//~~FOUO~~) Honorable Mention [redacted]

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(U//~~FOUO~~) Ms. [redacted] has been awarded Norman Roberts honorable mention in recognition of the extraordinary quality and quantity of her work. She is regarded throughout the cryptomathematics community as a spectacularly gifted analyst who approaches every problem with a fierce determination to solve it. Moreover, she is a delightful, giving person, always ready to assist, mentor, and nurture others.

(U//~~FOUO~~) Ms. [redacted] first five years at NSA have been astounding. Each office she toured as an AMP intern showered her with accolades and awards. Superlatives occur throughout her tour evaluations. She earned a Masters Degree in Computer Science, and she made significant contributions to nearly twenty diverse and difficult projects in the Application Layer Software Branch [redacted] as an intern and permanent member, a time span of less than two years, a remarkable achievement.

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(U//~~FOUO~~) Ms. [redacted] is indeed well deserving of this honor. Since joining the Agency she has accomplished more than most accomplish in a full career.

(U//~~FOUO~~) Norman Roberts Award - David G. Harris

(U//~~FOUO~~) [redacted] made his first appearance in the classified cryptologic mathematics community as a participant in the Director's Summer Program. At that time he had just finished his junior year at Harvard. He immediately impressed the DSP Technical Directors as one of those very special people who are born cryptanalysts. He tackled an extremely difficult problem and was equally concerned about developing attacks on specific systems as well as new general methods that could be applied to many systems. With his natural affinity for detailed cryptanalytic reasoning and his great perseverance in the face of enormous complexity, he was a clear choice to represent NSA at GCHQ the following summer. (At the end of each summer, two DSP-ers are selected to spend the following summer working at GCHQ.)

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(U) David started at NSA as a full-time employee as soon as he returned from GCHQ, joining the Applied Mathematics Program on his arrival. His next three years can only be described as a technical tour-de-force. There was great breadth in his choice of tours and technical projects, and great depth in his achievements on each project. He made critical contributions to the Agency's effort on Operation Iraqi Freedom. He broke new ground with his innovations in the mathematics of information processing and his work in this area has had a very important impact on Operation Enduring Freedom. One of his many advances in cryptanalysis provided the FBI with a much needed new operational capability. In one particular sub-discipline of modern cryptology where the Agency is very much in competition with the best cryptanalysts in the external cryptology community, David succeeded in being the first person in the world to reach the top of a very high mountain. His success gives NSA a commanding lead in the field and has many potential applications for our future mission.

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(U) For his dedication to the NSA mission and his many spectacular technical achievements we are very proud to present the Norman Roberts award to [redacted]

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(U) Distinguished Members

(U) Distinguished Member - [REDACTED]

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(U//FOUO) Martin has been at the forefront of analysis for 36 years. He has worked in every significant area of crypt during that time - manual systems, machines, speech systems, computer development and management. To all these he brought an enquiring mind; a flair for recognising what needed to be done and, where necessary, doing it himself; dedication which drove him to apply new techniques and improve old ones.

(U) Like all good analysts, he probably considers his most enjoyable times were when he was working by himself; and he made important contributions, especially in the construction and application of state-of-the-art computer systems.

(U) But, like all the best in our business, the most important jobs he did were those in which he harnessed the efforts of others as well as himself, to overcome problems too big for any one person to solve - problems of scale or of complexity like organising 24-hour shift systems for work under stress. Martin's first important management job was to set up and head the GCHQ party during the Falklands War in 1982; later he took over and developed the less urgent but equally critical 24-hour party which was established after the murder of Policewoman Fletcher from 1985 onwards; he has represented GCHQ in the interesting inter-Agency relationships involved in special operations in support of analysis; and finally he headed the organisation of all GCHQ production in our field, which responded magnificently to 9/11 and the Afghanistan crisis.

(U) To everything that he has done Martin has brought invention, enthusiasm, commitment - and common sense. His legacy is with us, in the hardware for which he argued, the software he designed, and the spirit which he brought to UKUSA analysis.

(U) Distinguished Member - [REDACTED]

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(U//FOUO) From NSA's beginnings until the early nineties, one particular target dominated the CA landscape at NSA, and [REDACTED] was at the forefront of NSA's cryptanalysis efforts against that problem, as an analyst, manager, and technical leader. His broad contributions to CA not only led to direct successes against the target, but also were the genesis for CA processes and programs today.

(U) In his role as analyst, Bob made a number of important technical contributions to problems that helped "pay the bills" for NSA. Numerous technical and intelligence successes came about from Bob's own analysis and his teaming with other analysts.

(U) Velocity, variety and volume, of communications are some of the stated challenges for NSA in the 21st century. But anyone who worked NSA's big target in the 60's-80's knows that CA has faced these challenges for decades. Bob's development of extracts, the collection and presentation of critical data related to an individual message, was a revolutionary step in analyzing target encrypted communications, and allowed analysts to make breakthroughs that would otherwise be impossible. Extracts are used today in many

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analytic disciplines, most notably CA (although we hide the fact that we are using a tried and true method by giving it a new name - metadata).

(U) Beyond those accomplishments, Bob served as a team chief, branch chief, division chief and office chief in CA areas, providing technical leadership to analysts and other managers in very broad CA missions. Finally, at the end of his time at NSA, Bob got back to his analytic roots, working with [redacted] on developing a small focused research effort against a particular technical challenge. Their efforts resulted in not only success against the particular problem, but the creation of the research pod concept. Research pods are now a permanent part of the NSA CA fabric, producing analytic results against a myriad of problems. (b) (3) - P.L. 86-36

(U) His broad and long-standing impact to Cryptanalysis make [redacted] a truly deserving Distinguished Member of Kryptos. (b) (3) - P.L. 86-36

(U) Distinguished Member - [redacted]

(U//FOUO) We honor [redacted] today for his unique ability to bring Cryptanalysis to the leading edge of technology. Whether it is in the realm of super-computing, hardware-design, or a special type of analysis, Rick has been able to marry his CA expertise with his knowledge in other disciplines to achieve the highest results. All the while, he has made these achievements in a environment of learning and teaching, constantly improving his own knowledge, and making his fellow analysts better.

(U) After graduating from the crypto math program, Rick was instrumental in a number of efforts to develop computer automation for Cryptanalysis. Both his work on general-purpose computers and his pioneering work on a specially designed computer to do specific CA functions allowed NSA to make advances against encryption previously unheard-of. His ability to understand every aspect of software, hardware, computing, and CA is a rare combination, and made successes out of projects that others said could not be done.

(U) Later, Rick worked as an integree at a Federally Funded Research Center that is a partner of NSA. During this assignment, he was able to push CA to the edge of supercomputing, testing CA processing applications on a variety of leading edge computing architectures. It also signaled the beginning of Rick's groundbreaking efforts in a special type of analysis. Seeing this as a growth area, Rick taught himself first, and then created a course for other analysts. His belief that this would be a growth area in the digital age was spot on. This analysis is now a technology used hand-in-hand with CA. Much of our success is attributable to Rick's efforts both as a teacher and problem solver.

(U) Rick represents that rarest of individuals, a multi-disciplined expert who takes the time to communicate and improve his own knowledge for the betterment of all who are involved in Cryptanalysis. It's a pleasure to honor him as a Distinguished Member.

(U) Distinguished Member - [redacted] (b) (3) - P.L. 86-36

(U//FOUO) It is with great pleasure that we honor [redacted] as a Kryptos Distinguished Member. In light of Gary's desire to keep a low profile, I will keep my remarks to twenty minutes, thirty minutes tops. I had to check the distinguished (b) (3) - P.L. 86-36

membership requirements to see if there was a minimum age limit? Gary had also taken an early out from the Batmen back in 1988. He does still play a good game of tennis.

(U) In all seriousness, while Gary has done (and continues to do!) his work in a low-key manner, his handprints are all over a multitude of successes in the world of CA. Much of his contributions cannot be adequately described in an unclassified setting, but it would be fair to say that Gary has looked at more algorithms from more angles in more geographic locations, than anyone we can think of.

(U) Gary has continually been sought out by his colleagues to work on the toughest problems with the highest payoff. And time after time those problems have fallen to teams of analysts that always have Gary as a low-flying, but absolutely critical member. Gary has never been one to blow his horn. All we have by which to judge him are the countless awards, the huge intelligence successes, and the deep respect of his technical peers.

(U) For Gary, I am sure this is just another one of those awards that he would just assume do without, but we thank him for attending today so that the CA community can say "thanks, Gary" for your many wonderful contributions to the field of Cryptanalysis

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The CryptoMathematics Institute



(U//~~FOUO~~) The CryptoMathematics Institute (CMI) is the oldest of the Learned Organizations at NSA. It was established by Lieutenant General John A. Samford, Director, NSA, in a memorandum dated October 1957. (Bylaws)

(U//~~FOUO~~) Dues for the 2007-2008 cycle can be paid starting with the December 2006 CMI talk. Dues are \$15 for the two years and can be paid to the treasurer.

(U//~~FOUO~~) Wondering if your dues are up to date? Check your membership status. (PKI required.)

(U//~~FOUO~~) One goal of the CMI is to document some of the history of mathematics and the CMI at the agency. If you believe you have historical information that could be of use to this effort, please let us know!

NEW! (U) Attend the CMI events of the season! Mathfest is on June 5-6, 2008 and the CMI banquet is on June 6, 2008 at the Crofton Country

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Club (directions). Tickets on
sale until May 23!

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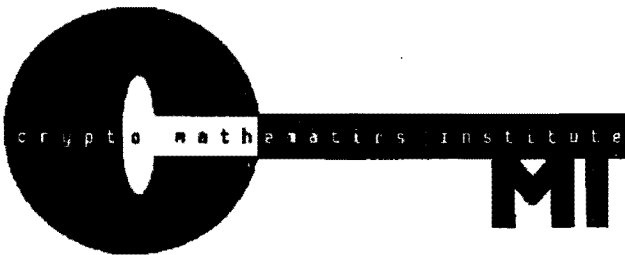
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The CryptoMathematics Institute



CMI Bylaws

By-Laws of the Crypto-Mathematics Institute
of the National Security Agency
(Revised 10 January 1985)

ARTICLE I

Purpose

The purpose of the Institute is to promote interest in and develop those aspects of mathematics which pertain to cryptology, and to provide a focal point for the Agency's mathematical community in fields of common interest. The Institute shall also furnish the Director, NSA, and the mathematics Career Panel with advice and counsel on such aspects of mathematical practices within the Agency and concerns of the mathematical community as they request or as the Institute sees fit.

ARTICLE II

Officers

Section 1. There shall be a President, President-Elect, Secretary, and Treasurer.

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Section 2. The President shall preside at the meetings of the Institute and of the Council specified in Article III, appoint standing and ad hoc committees and represent the Institute where representation is deemed necessary.

Section 3. The President-Elect shall act for the President in the latter's absence.

Section 4. The Secretary shall maintain the files, prepare minutes of meetings, conduct the correspondence of the Institute, and send out monthly announcements and other items of interest to the membership.

Section 5. The Treasurer shall handle the monies of the Institute and conduct its fiscal business.

ARTICLE III

Council

Section 1. The Council shall consist of the officers of the Institute specified in Article II, four members-at-large, and the appointed chairpersons of committees.

Section 2. the Council shall formulate the business and scientific policies of the institute and shall act as its legislative body.

Section 3. The officers of the Institute and the four members-at-large shall be voting members of the council, with one vote each. A quorum shall consist of a majority of the voting members.

ARTICLE IV

Executive Director

Section 1. There shall be an Executive Director who:

- a. votes at Council meetings to resolve ties;
- b. presides at any Institute gathering in the absence of the President and President-Elect;
- c. provides a liaison between the Institute and the Director, NSA, and between the Institute and the Mathematics Career Panel as requested by the President or the Council;
- d. provides an annual written summary of the Institute's activities to the Director, NSA, with copies to the Chairpersons of the Mathematics Career Panel and other pertinent Career panels.

Section 2. The Executive Director shall be appointed for an unspecified term by the Director, NSA.

ARTICLE V

Election and Terms of Officers

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Section 1. The term of office shall be two years for all officers and four years for members-at-large of the Council

Section 2. At the end of his term of office, the President-Elect shall become the President.

Section 3.

- a. Officers and members-at-large of the Council shall be elected by ballot of the membership at the annual meeting of the Institute. All candidates for office must be members, and only members may vote.
- b. Officers shall be elected by a majority of ballots. The two candidates for member-at-large receiving the highest total of ballots shall be elected. In case there is a tie vote for an officer, or there is no plurality for one or two members-at-large, the Council shall make provisions for a runoff election.
- c. Each ballot shall contain one or more nominees for each position, proposed by the Council, with space for "write-in" candidates. The Council shall make provisions for absentee ballots.

Section 4. If the President leaves office the President-Elect shall serve any unexpired portion of the term and shall continue in office for a normal term. If the President-Elect leaves office the Council will hold a special election to elect a new President-Elect to serve out the unexpired term and then to serve as President through the next term. If any other officer or member-at-large of the Council leaves office, the Council shall select a member of the Institute to fill the unexpired term.

ARTICLE VI

Members and Their Election

Section 1. There will be four classes of membership: general, associate, distinguished and life-associate.

Section 2.

- a. Anyone having knowledge, experience or interest in the mathematics of cryptology and the necessary security clearance, as determined by the Council, shall be eligible for general membership.
- b. Application for general membership shall be sent, accompanied by dues and badge numbers, to the Treasurer, who shall present the application to the Council. Election of general members shall be by vote of the Council. Should the Council reject the application, the Treasurer shall refund the dues.
- c. Any general membership may be revoked by the Council upon notification that the member no longer meets eligibility requirements or has failed to pay dues.

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Section 3. Associate members may be chosen from among persons meeting



the eligibility requirements for general membership, but who, because of their remoteness from NSA or other unusual circumstances, would not be able to participate fully in the Institute's activities. election of associate members shall be by vote of the Council. Associate members shall have all privileges of a general member, except that they may be assessed at different rates when participating in functions which involve a cost to the Institute treasury.

Section 4. Distinguished members shall be chosen by the Council from among persons meeting the eligibility requirements for general membership (except that security clearances may be waived), and who, in addition, have made outstanding contributions of unusual and permanent value to the science of cryptomathematics. Distinguished members shall have all privileges of general members, consonant with their security clearances.

Section 5. Life-associate members may be chosen from retired members of the Institute who request such status. There will be a one-time payment determined by the Council. Life-associate members shall have all the privileges of associate members.

ARTICLE VII

Dues

The annual dues of all general members shall be set by the Council. No dues shall be required of associate or distinguished members.

ARTICLE VIII

Meetings

Section 1. The Annual Meeting of the Institute will be held in January.

Section 2. The times and places of the annual and other regular meetings of the Institute shall be designated by the Council. The Secretary shall notify each member by mail of such times and places at least thirty days before each meeting.

Section 3. Special meetings may be called by the President.

ARTICLE IX

Publications and Awards

Section 1. From time to time the Institute shall sponsor expository and survey monographs on crypto-mathematics.

Section 2. The Institute will establish and administer honorary awards or other recognition for mathematical achievements of cryptologic significance as deemed appropriate by the Council.

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ARTICLE X

Amendments

These Bylaws may be amended or suspended at any meeting of the Institute on recommendation of the Council and by a two-thirds vote of the members voting provided notice of such proposed action and of its general purpose shall have been given in the call for such meeting. the Council shall make provisions for absentee ballots.

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June 2008 CMI Newsletter

1. MathFest
2. CMI Banquet
3. CMI 50th ANNIVERSARY UPPER GARMENT
4. CMI 50th ANNIVERSARY COMMEMORATIVE PUZZLE BOOK
5. Problem Department:
0805 solved
6. TeST Information
7. WiMS June Tea
8. Course Offerings
9. MathSciNet and TORPEDO
10. Math Applicant Talks
11. CMI Dues
12. Another Slow Night in Modesto
13. Electronic News
- A. TeST

1. (U) CMI Grand Event for June 2008

*****		*****
** CMI **		** CMI **
** CMI **	CMI Proudly Presents	** CMI **
** CMI **		** CMI **
** CMI **	(U// FOUO) MathFest	** CMI **
** CMI **		** CMI **
** CMI **	-----	** CMI **
** CMI **	>> UnclasiFest: 1:30 PM on THURSDAY, 5 June <<	** CMI **
** CMI **	FANX II's Norman Wild Auditorium	** CMI **
** CMI **	These talks are classified no higher than	** CMI **
** CMI **	UNCLASSIFIED	** CMI **
** CMI **	-----	** CMI **
** CMI **	-----	** CMI **
** CMI **	>> ClassiFest: 8:30 AM on FRIDAY, 6 June <<	** CMI **
** CMI **	R&E Symposium Center	** CMI **
** CMI **	These talks are classified no higher than	** CMI **
** CMI **	TOP SECRET//COMINT-ECI PIQ	** CMI **
** CMI **	-----	** CMI **
*****		*****

See the schedule at

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** Calendar Appointment **

Start: 6/5/2008 0930
 End: 6/6/2008 1615
 What: CMI MathFest
 Where: FANX II Norman Wild Auditorium
 R&E Symposium Center

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 2. *! CMI BANQUET !*

Date:
 Friday, June 6, 2008.

Time:
 6:00-10:00 P.M.

Location:
 Crofton Country Club
 1691 Crofton Parkway
 Crofton, MD 21114

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3. *!* HISTORICAL *!*
 ! CMI 50th ANNIVERSARY *!*
 ! UPPER GARMENT *!*

Short-sleeved and breezy cotton. Just right
 for the outdoor season. Be the envy of Princeton
 and La Jolla.

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Limited sizes available for purchase at MathFest.

4. *!* HISTORICAL *!*
 ! CMI 50th ANNIVERSARY *!*
 ! COMMEMORATIVE PUZZLE BOOK *!*

It will take another fifty years for you to
 solve these puzzles. So get to it.

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5. (U//~~FOUO~~) PROBLEM DEPARTMENT: The CMI Puzzle Editor welcomes
 all submissions for possible CMI puzzles. Please send brain-
 freezers to

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(U) Puzzle 0805 said:

(U) Give an explicit formula for

$\text{Floor}(\text{Sqrt}(1)) + \text{Floor}(\text{Sqrt}(2)) + \dots + \text{Floor}(\text{Sqrt}(n))$

in terms of n and $a = \text{Floor}(\text{Sqrt}(n))$.

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(U//~~FOUO~~) This puzzle was solved by

(b) (3)-P.L. 86-36

6/17/2008

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[REDACTED]

(U//~~FOUO~~) The following solution is by [REDACTED]

(U) Let $s(n) = \text{Floor}(\text{Sqrt}(1)) + \text{Floor}(\text{Sqrt}(2)) + \dots + \text{Floor}(\text{Sqrt}(n))$.

(U) First, we compute $s(n^2)$. It is clear that $s(1) = 1$, but we also have $s(n^2) = s((n-1)^2) + (2n-2)(n-1) + n$. It then follows that $s(n^2) = (5 - 3n + 4n^2) / 6$ by the formulae for sums of powers.

(U) Now let $a = \text{Floor}(\text{Sqrt}(n))$. Then

$$\begin{aligned} s(n) &= s(a^2) + (n - a^2) a \\ &= a(5 - 3a + 4a^2) / 6 + (n - a^2) a \\ &= a(5 - 3a - 2a^2 + 6n) / 6. \end{aligned}$$

6. TeST Information

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While [REDACTED] is off in Australia, [REDACTED] have carried on with another TeST. The same rules apply as always: Anyone can play but for official submissions, teams should consist of one to four people. Official submissions also need to be submitted to [REDACTED] by noon (EDT) on Monday, July 21, 2008. Anyone who submits an official solution will have the results (and answers!) e-mailed to them once we have them finished.

For purposes of this TeST, a "word" is an uncapitalized, boldface entry in Merriam-Webster's New International Dictionary, 3rd edition. Plurals, conjugated forms, etc. are allowed but abbreviations, prefixes, suffixes, etc. are not.

If you would like to be updated with errata (regardless of whether you intend to submit a solution), send us your e-mail and we will contact you directly.

If you find any errata, please contact [REDACTED]. We will also post errata on the CMI webpage.

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Finally, we happily acknowledge that some of the puzzle types within are inspired by those found in the Kryptos Kristmas Kwiz, set by [REDACTED]

Good luck!

Find the TeST at the bottom of the June 2008 CMI Newsletter. Also available in pdf at "go cmi".

7. WiMS June Tea

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(U//~~FOUO~~) The June Tea will be held on Thursday, June 26, 1300 - 1430, OPS1 2W037-1. WiMS is pleased to welcome [REDACTED] speak on "Mathematically Navigating the SIGINT System"

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[REDACTED]

6/17/2008

(U//~~FOUO~~) A special welcome to all students in the summer programs!
We would love to meet you and tell you about WiMS.

8. Course Announcements

To promote your course to the crypto-mathematical cognoscenti,
send an announcement to the CMI Secretary for inclusion in the
next CMI Newsletter.

9. (U) MathSciNet and More

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(U) MathSciNet is a comprehensive database covering the world's
mathematical literature since 1940. It provides Web access to the
data and reviews in the (paper) Mathematical Reviews. Thanks to
Herculean efforts of [REDACTED] (R1), MathSciNet is now available
on NSA computers connected to the internets. For details, go to the
following URL on NSA Webworld:

[REDACTED] (b) (3)-P.L. 86-36

(U) If you have an account on the NSA Library Internet Research
Network (LIRN), there is a link to MathSciNet from the home page,
under Science & Technology. Much love to [REDACTED] (S21A4) for
setting it up. For information on establishing a LIRN account, go
to the following URL on NSA Webworld:

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[REDACTED] (b) (3)-P.L. 86-36

(U//~~FOUO~~) TORPEDO

(U//~~FOUO~~) To enable agency mathematicians electronic access
to mathematical journals - while keeping a strong OPSEC
posture - R1 (in cooperation with IDA) has contracted
with the Naval Research Laboratory's TORPEDO repository
of electronic journals. Any agency UNCLASSIFIED computer
that is setup to access MathSciNet should also be able
to access TORPEDO. The unclassified URL for TORPEDO is

(b) (3)-P.L. 86-36

[REDACTED] (b) (3)-P.L. 86-36

(U//~~FOUO~~) The TORPEDO POC is [REDACTED] Current
information about TORPEDO can be found at

[REDACTED]

10. (U) Math Applicant Talks:

(U) The Math Hiring Committee is looking for volunteers to help
evaluate applicant talks. Applicant talks are scheduled and
announced regularly. If a title and abstract looks interesting
to you, we would greatly appreciate it if you would attend the
talk and submit a brief evaluation to the Math Hiring Committee.

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[REDACTED] 6/17/2008

Such write-ups will be of great value to the MHC ("em-HUCK") as part of the hiring decision process.

(U//~~FOUO~~) Please contact [redacted] or [redacted] to volunteer.

11. (U//~~FOUO~~) CMI DUES:

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(U//~~FOUO~~) The CMI treasurer ([redacted]) will be glad to take your dues; Marian can usually be found outside The William and Elizebeth Friedman Auditorium before the monthly CMI Talks. Dues are \$15 for two years. (Make checks payable to "CMI".)

(U//~~FOUO~~) To mail in your membership, make a check out to "CMI" and send it to [redacted] c/o S31116, OPS2A, room 2A0238, Suite 6419. Along with your payment, please include a note that indicates your your name and your hometown.

(U//~~FOUO~~) Check out [https://\[redacted\]](https://[redacted]) (b) (3)-P.L. 86-36 to determine your membership status.

12. (U//~~FOUO~~) And Wolfman Jack as Himself

President:
President-Elect:
Treasurer:
Secretary:

[redacted]

At-Large Members:

[redacted]

CMI Program Chair:
CMI Web Master:
CMI Puzzle Editor:

[redacted]

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CMP Rep:
AMP Rep:
IDEP Rep:
CA Rep:

[redacted]

Mathfest Chair:

[redacted]

CMI Banquet Committee:

[redacted]

13. (U//~~FOUO~~) ELECTRONIC NEWS:

(b) (3)-P.L. 86-36

This announcement is being distributed exclusively in electronic form via e-mail and ENLIGHTEN. It is also available from the CMI web page. Please notify [redacted] if you can't access any of these electronic sources. (b) (3)-P.L. 86-36

[redacted]

6/17/2008

(U//FOUO) The CMI web page also contains a glut of additional information about the CMI, including historical information, upcoming events, current officers, etc. The page can be accessed by typing "go cmi" in your browser window, or else by going to [redacted] Please note that this page is currently only accessible to employees and integrands at NSA.

Our second party partners can access the newsletters at [redacted]

A. TeST

1. Where does CINCINNATI go in the following list?

ORCA	ASPEN	CHAMPION	EGG	MUSE	ZIRCON
CURDS	MARENGO	BUMPKIN	YOGHURT	VALIUM	COATS
EASTER	CREAM	GUNPOWDER	PIZZA	POISON	BUTTERMILK
WHEY	RULES	TEAM	FODDER	KISS	MACKENZIE
OASIS	SAVING	PEOPLE	KANE	BULL	POINT
HUN	GELATO	SNOTTY	COMMISSARIAT	BLARNEY	QUEEN
DOORMEN	SPORTSMAN	ONES	PORT	PICO	GEICO
ARMS	MECCA	DAD	DOT	SOAP	BOSTON
CRAWL	GRINDSTONE	ADDITION	TEUTON	MEMORY	PARACHUTE
CHEESE					

(8)

2. The following entries have been formed using 7 categories (each consisting of seven numbers) and 7 methods that are orthogonal in the usual way. That is, for each method precisely one number in each category has been

obscured via that method. Identify all the methods, categories, and members of each category.

IF	MO	BEB	OF	64	AES	332
UZI	UTE	KEG	BAH	SIX	451	8211
596	GAWK	STIR	FUJI	2684	1066	QUOTH
ALEPH	FIRST	BRIMS	16796	12511	14877	FTALIC
ARSINC	CERATE	76134	753408	JKGXYT	TWITCHY	AFLAMES
BOMBAST	317740	ENGLAND	FOOGJUL	FESTIVE	TIGHTEN	825265
YACRINK	WOXGUIL	EFFUSION	WHITENER	CONICAL	FICTIONAL	PALEONTOLOGIST

(8)

3. Find five properties so that each word below shares precisely one property with each of the other words. Equivalently, each of the five properties divides the six words into three pairings, with each possible pairing occurring exactly once among the fifteen total pairings.

BIVOUAC, FRYPAN, LOWER, STILLED, SYLPH, UPPITY

(1)

4. What could follow?

[redacted]

BZR, OIN, OYX, OOA, KPR, LUY, ENO, IGT, ?

(1)

5. What property do the words before the colon share that the word after does not?

(a) COMB, DIVE, FLEW, HULK, IMPALE, LED, MEDIC, MESH : PUNT

(b) COMB, FURY, GULL, HEARD, HOWLER, MALLETT, OREAD : RELIEVE

(c) NEGATIVE, PLAYER, ROWLING, PARKING, ART, PAUL, LIGHT, BUG : ELIOT

(d) ACADEMY, DEPOSIT, KEY, LEGION, NICE, PEARL, ROCKS : WHIST

(e) ADMINISTRATOR, ARMFUL, NUMSKULL, TABLEAUX, UGLY : QUANTIFIER

(f) BAIT, CAP, DELL, EIGHT, LAMB, OHM, OOPS : WREAK

(g) HAM, JOULE, RICH, PEAR, ROAM, SYMBOL, TIGHT, TROY : PIER

(h) CHAD, ERIC, FAT, HELL, INGLE, SAND, SLAB, SWELL, THEME : ESP

(i) HEW, HIND, LINTEL, MIST, RATER, SEEN, STARK, TYRE : EVENS (1 each)

6. This style of question is due to Round Britain Quiz on BBC Radio 4: the format is one, long, cryptic question which has six parts to it, indicated by the letters a-f. To gain full marks you should identify all six parts. This will be sufficient to answer the question.

A former inhabitant of Ethiopia (a) who played football with a Super Bowl winning Washington Redskin (b), and has a relative that shares a name with a multiple Nobel prize winner (c), is also associated with a celebrated festival (d) and a famous cipher (e); all of them combined amount to very little (f). How is this?

(3)

7. What rule can be used to pair the words in each list, and which word is unpaired?

(a) SWISS, GLASS, MUSTARD, BALL, EVIL, THERAPY, APPARENT, BLACK, HAPPY, SPY, BILLIE, PALM, TOWN, ALLIGATOR, PRIORITY, ANGLE, WAX, WHEAT, PLAY

(1)

(b) MANAGEMENT, POINT, RASH, GAUSSIAN, EXAMINER, FORT, INSTRUMENT, JUDAS FINDER, STONE, POWER, IRISH, PIN, TRANSPORT, SWAMP, OVEN, KEY

(1)

8. Two words, word1 and word2, are related by a certain function f. This function can also be interpreted as a permutation of the alphabet. We then have $f(\text{word1}) = \text{UIFCKQC}$ and $f^{-1}(\text{word2}) = \text{LOPJWBPWEN}$. What's the f?

(1)

9. Below are the complete clues to a puzzle we were writing. Alas, we could not typeset the sixth one and had to abandon the puzzle. What is the sixth clue?

PIT, CELL, INMATE, CHALICE, COMMAND, ?, RELICS (3)-P.L. 86-36

(1)

10. Although it might pain you to hear it, HEADACHE cannot follow. What word could follow and why?

HI, EGG, CABA, DACHA, CHADIC, BACCHII ?

(1)

11. Fill in the missing entry.

ZOLAESQUE, ?, CONDONE, BOVIFORM, BEGAT, MONTHLY, MAJOUN, SKIT, LOW, PI

(1)

12. In English it's (a), in French it's (b), in German it's (c). What is it?

(a) 1, 6, 10

(b) 1, 3, 9, 10, 11, 18

(c) 1, 8, 9, 80

(1)

13. Below is a message suitably encoded. It may take some time to iron out the details, but please have a go at it. When we gave this puzzle to a friend

of ours in the UK to test solve, he did everything correctly save one detail,

which resulted in the unparsable string: IFERIBSEERLNMYLELLBEOAJSFL.

Please tell us what the message is.

64(6) 46(1) 33(2) 33(5) 33(3) 44(6) 21(1)

11(10) 41(4) 12(1) 31(1) 56(13) 54(1) 11(9)

16(6) 21(12) 21(8) 65(4) 35(4) 22(8) 66(5)

12(10) 24(7) 42(10) 54(1) 15(4) 34(1) 61(8)

(2)

14. What could come next?

TRIED, SINCE, RIVET, SNIPE, SNUFF, ENNUI, WIZEN,
CHESTS, KNUFF, DIRGE, ENUFF, CHANT, DUNNE, ?

(1)

15. Identify:

U7 V3 F5 B2 C2 U8 I2 L4 C8 I4 S3 P3 C1 R5 B3

(1)

16. Identify the following groups.

(a) 6, 2, 1, 9, 8, 7

(b) 2, 3, 4

(c) 15, 2, 0, 1, 13, 8, 9, 11, 3

(d) 11, 3, 12, 11000, 5, 15, 4, 7, 11001, 0, 12000, 11002, 9, 13 (1

each)

17. NLHSIALGOALQYGNKFPPSRPPSDBNQPPSSBYGNL
GCKSBEOALILGFCODOSYBOAGLLOQLBOXUSXLKL
XLBOASGOLLBLPLXLBOQLBOVUYCGRLGYLSEAOL

(b) (3) - P.L. 86-36

LBOQLBOVOQYOQLPXLUSUOLLBUSXLYBLOQLBOV
UYCGLSEAOBSBLOLLBKJSJOLBUYCGOLLBOQYOQL
BOVOAGLLKJSJOLLBBSBLOQLBOVYBLKLXLBOLLB

(1)

18.

- (a) A small number of countries share a certain property. These countries fall into six classes and a representative of each is given below. What is the property?

AUSTRALIA, INDIA, KYRGYZSTAN, NEW ZEALAND, SYRIA, TURKMENISTAN

(1)

- (b) What could follow?

BAHAMAS, KENYA, HAITI, SERBIA, CROATIA, TONGA, CHILE, BHUTAN, IRELAND, ?

(1)

19. Explain the orders:

- (a) ELEVATED, AUTOHARP, JACOBIAN, ASPIRING, TECTONIC, ANEURISM, DIDYMIUM, CANNABIS, HYDROGEN, ANDROPOV, YATAGHAN, CAULDRON, INFERIOR

(1)

- (b) HYDROGEN, INFERIOR, ELEVATED, AUTOHARP, CAULDRON, ANEURISM, TECTONIC, ASPIRING, JACOBIAN, CANNABIS, YATAGHAN, ANDROPOV, DIDYMIUM

(1)

20. What comes next?

- (a) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, :, ;, <, =, >, ?

(1)

- (b) A10, B10, C12, D6, E9, F17, G8, H8, I6, J13, ?

(1)

- (c) A3, B25, C14, D9, E1, F13, G26, H20, I6, J11, K15, L18, ?

(2)

21. What comes next?

- (a) 1362, 1843, 2540, 4280, 5507, 6896, 14601, 15143, 17547, 18393, ?

(1)

- (b) 143, 2525, 5211, 14567, 19907, 21078, 21476, 24960, 26535, 29987, ?

(1)

- (c) 7220992, 27952831, 32318907, 35148342, 37191367, 38949871, 39085929 ?

(1)

22. A friend of ours recently told us that he is going to be celebrating the Fourth of July in the UK. He gave us the letters and numbers below in case we need to find him, but refused to tell us why he is flying there. After some thought, we were able to deduce the reason. What is it?

HT416 AT4 M3 P4 OC4 GP5 PC15 E&C7 (LB4)
WH2 B7 M5 BS5 CC10 TCR12 NHG6 S10 (B7)(3)-P.L. 86-36

(3)

23. In 1996, a British athlete left London on a chartered flight for the Olympics. Before the flight, the pilot was given a description of where he would be flying to and a direction to follow to get there. Since that direction made no sense, the pilot decided to reinterpret the direction and created a new flight plan which took him all over the world. Below is a list of locations where the plane stopped for fuel along the way. What information was the pilot given and where did the plane finally land?

ST. PETERSBURG, KOBE, MERIMBULA, MEMPHIS, MANAUS,
MASHHAD, SRINAGAR, ALAKANUK, WHITEHORSE, HOFN

(3)

24. The following strings have been formed by taking elements that share something in common, inserting into each a letter from the common property, anagramming the individual entries, and concatenating. Identify the common property in each case.

Example: DERCULOBENELGREGOONAEARTHRIEWPESLUPR

DERC ULOBE NELGRE GOONAEER THRIEW PESLUPR
RED BLUE GREEN ORANGE WHITE PURPLE
C O L O R S

(a)

PIGRUNESLIDFIBSSOEVEVERCODEUNJAAUTOBONSPHINXIPOETEDRENVINATAUSRIPELERAMLESS
(1)

(b) LEGERICCETELEVITIANRELYTMELBASESYENTORECLIPASHOTILASTROLE

(1)

(c) JETPIGRUNEUPONTELUNCDAVIDSUSNOSY

(1)

(d) OJRIbsononancrowbanksomealosingeachn

(1)

(e) DRESROFQUARTFULAGRAMACIGARFEPCRETTE

(1)

(f) VETNINESURTENMOUSEIESOCANTHREECOORUSEVEN

(2)

25. Pair them:

(a) CK, DP, EB, GC, HS, IA, JA, JL-D, JO'H, JP,
JP, JS, JS, LT, MR, N, PW, SN, SR, WK

(1)

(b) AGB, BF, BJ, CG, EF, EW, JG, J-7AH, LR, LS,
MO, MT, NR, P, PS, RJ, T, TB-L, TE, WWW

(1)

(c) AoA, AoSFF&HF, DoJ(TM), EZ, GH, HT, KB, LT, MT, N,C,
OW, P, SA, SU, T, THHE, TP, (N,M) VM, LVM86-36

(1)

(Note: "N,C" is a single entry.)

- (d) AP, AS, BB, BS, DE, EF, FG, HP, IJ, JV,
LL, LV, MTM, N, PM, S, SB, SH, TD, TM
(1)
- (e) AH, B, BA, EL, GF, GR, IG, JC, JW,
JO, LLE, OTH, P, RR, SID, WAIL, WP, Y-O
(2)
- (f) AP, BW&CB, CM, E&JC, FFC, FZ, JD, JG, JRRT, KK, LH,
MF, MM, MP, PJ, RH, RR, SN, SS, TH, TK, VF
(2)

26. The following 14 clues each yield a seven letter answer. Seven of the words fill the rows of a 7x7 square, while the other seven fill the columns of a second 7x7 square. There is no correlation between the order of the clues and where the corresponding words fit in the grids. The following rules will help you:

- (i) Each letter of the alphabet occurs precisely according to its Scrabble distribution in the two combined grids. (Note that there are 98 non-blank Scrabble tiles.)
- (ii) Each letter in either grid must have the same Scrabble tile score as the letter in the corresponding location in the other grid. (Note: One exception is that K and D must correspond due to this singular asymmetry in the tile distributions.)
- (iii) No letter may occupy the same position in both grids.

Provide both completed grids.

- 1) Apparent to the eye
- 2) At the midpoint
- 3) Descendants from a common progenitor
- 4) Game played with tiles
- 5) Hand-made a sweater, perhaps
- 6) March 21, according to Christian churches
- 7) Knot commonly used to secure a boat
- 8) Casualty at Pearl Harbor
- 9) Tom Petty hit
- 10) Possessing a characteristic scent
- 11) Regent
- 12) Secret or obscure
- 13) Trellises that share their name with a U.S. hotel chain
- 14) Turned on the ball of one's foot

Scrabble letter frequencies:

A:9	G:3	M:2	S:4	Y:2
B:2	H:2	N:6	T:6	Z:1
C:2	I:9	O:8	U:4	
D:4	J:1	P:2	V:2	
E:12	K:1	Q:1	W:2	
F:2	L:4	R:6	X:1	

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Scrabble tile scores:

A:1	G:2	M:3	S:1	Y:4
B:3	H:4	N:1	T:1	Z:10
C:3	I:1	O:1	U:1	
D:2	J:8	P:3	V:4	

E:1 K:5 Q:10 W:4
F:4 L:1 R:1 X:8

(3)

27. Where does SHEEN go on this list?

BUSH, LITTLE, FELL, TEMPLE, LORD, HALL, WORTHY, RICH, VISITOR, GRAY

(1)

28. Parse line 1 to give a sequence of initials of people and things; parse line 2 to give a sequence of numbers; then pair each of the initials in line

1 with its associated number from line 2. Any punctuation marks on either line have been omitted.

1: SOTDWTMCNCJCMCCCPKS
2: 1008681066382336121543319222445755546296

(2)

29. By what name are these groups of people better known?

- (a) B, C, M
- (b) GH, VB, MB, EB, MC
- (c) EE, AMH, JN, MR, AS
- (d) DO, FC, RR, RT, VM, TM, LD, Y, SB, LC, BT
- (e) MJ, EJ, CB, PE, CD, LB, KM, CM, SP, DR, JS, CL

(1)

each)

30. Given a set of three words of equal length and having the property that no two words share the same letter in any one position, we can combine them according to the rule: the i th letter of the combined "word" is the unique letter in the i th position from the given words that is closest to A in the alphabet. Each of the following "words" is the result of combining members of a common group in this manner. Identify all members of each group.

Example: Group = Numbers
 Members = FORTY ==> Combined "word" = EEEN
 EIGHT
 SEVEN

- (a) KERCHBLLAG
- (b) BECCAAEIK
- (c) JEBIECK
- (d) HLIH

(1)

each)

31. If $f(-901)=15$, $f(1)=515$, $f(2)=50$, $f(3)=50$, $f(4)=1500$, $f(5)=1001$, $f(6)=101$, and $f(7)=105$, for what positive integer n is $f(n)=n$?

(1)

32. Place in another non-trivial order:

CHERYL, FARRAH, HAN, KIRK, LORNE, PIPER, REX

(1)

33. At a recent party we were browsing through the host's eclectic music collection which had an unusual numbering system. Some of the titles we saw are listed below. What numbers were "Like a Rolling Stone", "Choral Symphony", and "Tannhauser"?

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1: "Here Come The Warm Jets"

- 2: "Just Got Started Lovin' You"
- 4: "Carmina Burana"
- 24: "And When I Die"
- 48: "Down On The Corner"
- 78: "Every Breath You Take"
- 84: "This Land Is Your Land"
- 106: "Purple Haze"

(1)

34. Let Φ be the Golden Ratio, $\ln(x)$ be the natural logarithm, and e and π be the familiar mathematical constants.

If $\Phi + \pi$ goes to X in 5,
 $\ln(194) + e$ goes to O in 6,
 π^{43} goes to X in 7,
 e^{743} goes to O in 8, and
 $139/204$ goes to X in 9,

then what does $\ln(9288)$ do and why?

(1)

35. Use the underlying answers to determine our final message.
 To assist, the lengths of the answers are provided below. However,
 they are given in ascending order which is not correlated to the
 order of the clues. Some of the answers may consist of multiple words.

- (1) Abnormally afraid of water
- (2) America hit "_____ Love"
- (3) Carroll character whose name likely derives from a Byrom epigram
- (4) Chief of the Vanir; god of sea and wind (var.)
- (5) Farewell that shares its name with a breakfast cereal
- (6) First Rodgers and Hammerstein collaboration
- (7) First word in name of company later known as Esso
- (8) Fluctuate like a sine wave
- (9) Former name of the Hawaiian islands
- (10) Full name on cover of Time Magazine, May 23, 1969
- (11) Hat worn by a Harrison Ford character
- (12) It's equivalent to Zorn's lemma
- (13) It's number one
- (14) Legendary unfinished 1967 rock album finally released in 2004
- (15) Mileage gauge
- (16) Murder weapon in Clue
- (17) Object of admiration for Laconophiles
- (18) Part of NSA
- (19) Participant in the American Civil War
- (20) Poet who named the British art movement Vorticism
- (21) Sister city of Chemnitz and Tempe
- (22) Steven Berkoff play
- (23) Surname of composer associated with the Can Can.
- (24) Tool or mixed drink
- (25) Unseen planet in the Star Wars trilogy
- (26) Yankees outfielder in 2008

Lengths: 5,5,5,6,6,6,6,6,6,7,7,8,8,8,8,8,9,9,9,10,10,11,11,13,15

(3)

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6/17/2008

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Who We Are

What We're Doing

Why Join

Membership List

Newsletters

Members Only Area

(U) Like other societies, learned organization and ancillary groups, the Pen and Cursor Society took a great hit from 9-11. Mission demanded full attention from the membership and the society's officers. Although we have kept the organization alive in name, it is not a functioning organization. Therefore, we are not accepting members at this time.

(U) Plans are underway to work with the legal office to transition the society to a bulletin-board virtual society where ideas and tips can be exchanged. This has not happened yet. We will post more information as it becomes available.

What is the Pen & Cursor Society?

The Pen and Cursor Society is a member of NSA's Council of Learned Organizations. (It was chartered in May of 1993. The charter was updated in 1996.) The idea is to have a forum where people involved in communications can share information and ideas. Its purpose is to provide a focal point for the dissemination of information among Agency personnel employed in communications: editing, writing, technical writing, publishing, graphic design, on-line documentation, and audio-visual and television production. The Society also sponsors seminars and guest speakers throughout the year.

The Pen and Cursor Society's goals are to enhance professional growth in these disciplines and promote excellence in communications throughout the cryptologic community.

If you are involved in writing, editing, technical writing, intelligence reporting, publishing, graphic design, on-line documentation, multi-media presentations, or television production, we'd like to have you aboard!

How May I Join?

Membership is open to any NSA employee interested in promoting excellence in communications within the Agency and throughout the cryptologic community. Dues are \$5.00 per year. Along with your membership card, you will receive a free patriotic pen that also includes a highlighter.

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6/17/2008

If you'd like to join the group, you can print out this [application form](#) (also available at our meetings), or contact the President or any other [officer](#) for further information.

If you don't want to join, we hope you'll still be interested in our ESS topic messages ([category 1313](#)). We plan to post information about meetings, of course. We'll also post articles of interest to those in the communications field. Click [here](#) to see a selection of our Concepts in Communication [newsletters](#).

Suggestions?

If you have suggestions for information that you would like to see on this page, programs you would like to have presented, or information on becoming an officer or member, contact:

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Other [Professional Organizations](#) at NSA.

Some [WebWorld](#) links on writing and design.

Your [feedback](#) is important to us.

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Information Owner: S02L1, 966-5629s
Last Overall Site Review: February 16, 2007
Last Modified: July 9, 2002

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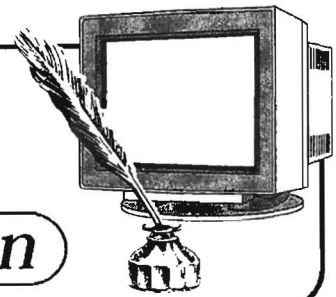
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CONCEPTS_{in}

communication



◆ The Newsletter of the Pen & Cursor Society ◆

◆ Volume 3/ Number 1/ Winter 1997 ◆

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Unleashing Your Creativity by Sue Seevers

At a Pen & Cursor-sponsored creativity Workshop held on 24 September, 22 P&C members and guests joined [redacted]—also known by her pen-name, Rebecca York—for two hours of activities and discussions aimed at unlocking the creativity in each of us. If you were unable to attend, you missed a great workshop! But you can still try some of Eileen's techniques:

Explore your childhood memories: Think back to your earliest childhood memories. Remember your favorite toys, games, playmates, and imaginary friends. Did you feel creative then, as if you could do anything?

If you no longer have that sense of creativity, ask yourself why. As an adult, do you always have to be logical, practical, correct, and no-nonsense? Do you believe you're no longer creative?

Give yourself credit. You probably have creative ideas all the time in the workplace—finding solutions to problems, and thinking of better ways to do things. Of course you're creative! Creativity isn't just for fine artists.

Try some soft thinking. Hard thinkers focus on facts, analysis, logic, and precision. Soft thinkers use hunches, imagination, and metaphors. Soft-thinking skills lead us to use our creativity more, and to find the similarities and connections among things, rather than focussing on differences.

Don't prejudge your efforts. Keep the "judge" in you quiet until the artistic side has expressed itself. Enjoy the process before accepting or rejecting the result.

Break the rules. Don't always accept the way things are. Challenging the rules lets you think about how things might be.

Brainstorm. Learn to think in terms of "what if...?"

Have fun. Fun, play and humor fuel and stretch the imagination, relax the mind, and fertilize the garden in which you grow ideas.

So, what ways can you find to be creative today?

Eileen's suggested readings for jumpstarting your creativity:

- *The Artist's Way* - Julia Cameron
- *Discovery* magazine's October 1996 issue
- *Simple Abundance* - Sarah Ban Breathnach
- *A Whack on the Side of the Head* - Roger von Oech
- *43 Light Street Home Page* - via Internet: <http://www.lightst.com>

P&C Events, Membership Renewal

Pen and Cursor members wound up 1996 with some great events. In the Fall, there was a PerSum Workshop (described in our previous issue), a Creativity Workshop (see article at left) and [redacted] FrameMaker workshop (tips from that will be in our next issue.)

We started 1997 with an Ice Cream Social in January (all work and no play...). In February, we held another of our by-popular-demand PerSum Workshops. If you missed the that one, we're trying to schedule more. Meanwhile, the new Pen and Cursor members will start slating events for spring.

But you won't hear about all the 1997 events if you don't renew your membership. Doing so will keep your name on our e-mail and newsletter mailing lists. Remember, as a member, you can reserve a seat at popular talks and workshops, instead of taking your chances at the door (and you pay less for lunches and socials than non-members). Please mail the form on page 4 to [redacted] by 30 March.

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◆ IDEAS AT WORK ◆

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2 ♦ Concepts in Communication ♦ Winter 1997

**Message from the
Outgoing President**

by [REDACTED]

After serving for the past two years in leadership positions in the Pen & Cursor Society, it is now time for me to assume a support role. It has been a rewarding and challenging experience, and I am grateful to have had the opportunity to help shape the Society in its formative years.

With appreciation

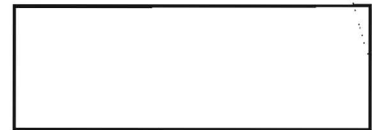
My deepest thanks to a hard working group of Board members, who in spite of demanding schedules were always willing to devote substantial time to the Society. I am particularly

grateful to incoming President [REDACTED] and Program Chair [REDACTED] for an excellent array of programs; to Newsletter Editor [REDACTED] who took over this job mid-year; to P&C founder and first President [REDACTED] for always lending her expertise to the Society; and last but far from least, to my predecessor [REDACTED] for his invaluable advice and support. Plaudits also go to Treasurer [REDACTED] Secretary [REDACTED] Members-at-Large [REDACTED] and [REDACTED] Publicity Chair [REDACTED] and Membership Chair [REDACTED]

Looking Ahead

I look forward to many more years of association with P&C. I believe that

the Society's commitment to promote excellence in all phases of communications at NSA reflects the values expressed in NCS-21. I am proud to be part of an organization that provides employees across the Agency with an avenue to learn new communications techniques, to exchange ideas, to hone their communications skills, and to enhance their knowledge of resources available to help them do their jobs more effectively.



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**Message from the
Incoming President**

by [REDACTED]

A new year is a time for change, but also for reflection. We of the Pen & Cursor Society have much to be proud of as we reflect on 1996:

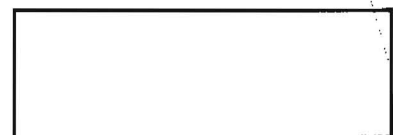
- [REDACTED] led us admirably all year, building well on the legacy of her predecessors.
- The P&C Council, ably guided by [REDACTED] revised the Charter to better reflect what P&C has become.
- Program Chair [REDACTED] and her helpers found varied, interesting speakers for our programs.
- P&C expanded into the field with [REDACTED] PCS to Molesworth, England (where she already had an "interest" meeting), and with [REDACTED] PCS to Colorado.

The obvious questions now are "Where do we go from here?", "What changes do we need to make?", and "How do we hold on to what we are doing right?"

- 1) **FOCUS** - The Pen and Cursor Society is a Professional Society for writers, editors, and communicators of all stripes and colors. We need to reexamine what we are today and what we want to become.
- 2) **FOUNDATION** - One thing we need to do as a Society is to strengthen our members' skills. We can do this in many ways. We can: network, mentor, provide training, and provide a "lending library" of relevant media. Any other ideas?
- 3) **FAMILY** - A professional Society can only exist as long as there are professionals to belong to it. One 1997 goal is to expand membership to include other colleagues both at headquarters and around the world. Do you have any contacts in the field?

4) **FUTURE** - Why have a Professional Society if not to build the next generation of professionals? We need to emphasize programs (both talks and projects) that will reach out to the less-experienced members of the community, and help them to strengthen their communication skills. *Will you help?*

As the new President of the Pen & Cursor Society, I have lots of ideas - and I know you do, too! But the only way to implement them is by talking together, planning together, and working together to make this the best possible Professional Society. I look forward to hearing from you! E-mail me at [REDACTED] or send "snail mail" to me at B638, Ops2B, 2B2120.



♦ IDEAS AT WORK ♦

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Concepts in Communication ♦ Winter 1997 ♦ 3

That's Infotainment?

by [REDACTED]

I encountered a neologism recently that I intend to resist using (at least, I'll resist it as long as honor demands, to borrow an expression from H.W. Fowler): *infographic*. It was in the byline credits for two charts accompanying an article in a local newspaper: "*infographics* by John Doe (to remain nameless here)."

Why *infographics* strikes me as a poor addition to our vocabularies:

- First, insofar as *graphic* is accepted as a noun, it refers to artwork or data displays. One need not add *info-* to it as if to assure the reader that he is not looking at a collection of X-rated images.

- Second, the word *charts* would adequately describe the items in question; why was it rejected? Are *infographics* more *high-concept* and *value-added* than mere *charts*? (If this is the case, maybe graphic designers are on to something. Are they paid more for *infographics* than for *charts*? If so, perhaps we should start calling our writings *infotextuals* instead of mere articles and reports.)

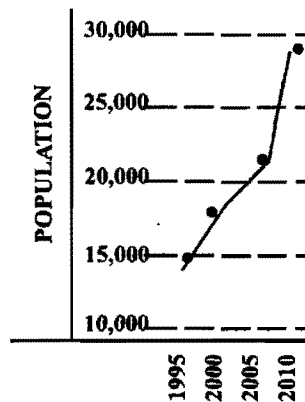
- Third, the pseudo-combination form *info-* seems to impart a disparaging tone to any word it appears in. *Infomercials* and *infotainment* are understood to play fast and loose with facts, as do *docudramas*, another combo-word of dubious provenance.

InfoCharts Lite:**More Ink, Fewer Facts!**

If the charts I saw had to be named—a simple "by John Doe" would have worked—I would have called them something cute like *infographix* or perhaps *Info McNuggets* (small and overly cooked). And while this column (I mean, *infotextual*) is mostly about words, I would like to discuss these

charts. They are data-thin, deceptive graphics such as we want to avoid when creating graphics for our own reports, presentations, papers, or publications.

The first purports to illustrate the statement that Howard County's senior population will double by 2010. I've redrawn it here (not perfectly, but close enough):



The text and the numbers say the senior population will double, but the deceptive visual impression—created by scrunching the years together and by starting the population figures at 10,000—is that it will quadruple. Will Columbia be the next Tampa, as the chart's title, "Growing Gray", suggests? We don't know, since we haven't been given projections for other age-groups during the same period.

The second chart illustrates that by 2000, the disparities will be "huge" between the availability of hospital beds for higher-income seniors and the availability of hospital beds for lower-income seniors. The bars at left show the demand for beds (D) vs. the supply of beds (S) for seniors with incomes "under \$25,000" (per year, one assumes). The pair at right shows the ratio for seniors with higher incomes. Again, a FrameMaker version: (next page ⇒)

Combo-Words:**Where Will They End?**

Why use an adjective and a noun if you can compact them both into one word? That seems to be the message we're getting from journalistic wordmeisters these days.

Some of these creations sound kicky the first time you hear them, like *documentary* ("Double the flavor, double the fun, it's two, two, two words in one!")

Some are so derisive—*Eurotrash*, *psychobabble*, *infotainment*, *econobox*, and *technojunkie* come to mind—that they permanently sully any words beginning with the same forms. Hence, we treat *Euro-*, *psycho-*, *info-*, *econo-*, *techno-*anything with due suspicion. ("We just won at the Olympics, and we don't know where we'll go, but it sure won't be *EuroDisney*!")

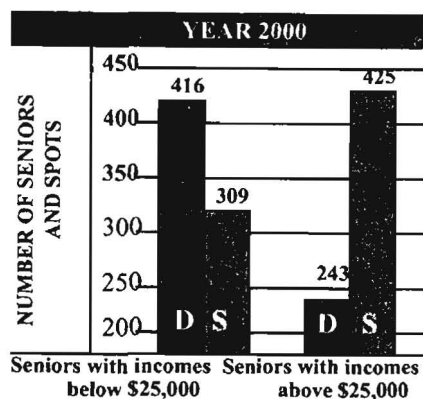
Some combo-words sound so dull and abstract—like *agroimport* and *petrodollar*—that even though we're not sure exactly what they are, we hesitate to ask. (Alright, I'm actually a bit curious about *petrodollars*: What do they look like? Will Safeway let me use them to buy groceries?)

Of course it is meet, just and right that the English language should continue to evolve, but what is it evolving into? Before we start using *Eurosocioinfographics* to illustrate *politicomentorials*, we should remember how we've always ridiculed the unwieldiness of German combo-words. ♦

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Infotainment (continued)



Yes, the disparities appear huge indeed when the y axis starts at 200, not 0. The numbers are hard to read, and if you can't read the label on the y axis, I'll point out that it is "Number of Seniors and Spots". Beware of the odd labels that can result from using the y axis to represent two or more variables, and from taking brevity to an unnatural extreme. (Some of the ink used on the black bars should have been used on better annotations.) Also, try to orient all labels horizontally, unless: a) you're trying to emphasize verticality to force a point with extreme prejudice, or b) the entire point of the chart is to show off that you found the /rotate text 90°/ command in FrameMaker.

In defense of these charts, I should point out that at least the bars aren't

1997 P&CS Officers, Committee Chairs

President:	B638	963-3866
President-Elect:	S32	968-8141
Past President:	W9R2	963-3401
Secretary:	S542	972-2352
Treasurer:	F5	933-9827
Members-at-Large:	S542	972-2895
	A054	963-1359
	B4095	963-5636
	B052	963-6011
Programs:	A136	963-3661
Publicity:	Z134A	963-5706
Membership:	G253	963-4620
Publications:	W9F2	963-4754

done in "popping off the page" style, nor are they decorated with loud stripes, houndstooth checks, or any of the other treatments available in most software. These gimmicks—termed *chartjunk* by graphic designer Edward R. Tufte—bring to my mind the image of a tapdancing chorus line singing "Let us *infotain* you, let us make you smile..."

In our work we try to inform, not to *infotain*, and certainly not to deceive—whether by design or by inattention to design. Accordingly, I recommend Tufte's two books—"The Visual Display of Quantitative Information" and "Envisioning

Information"—to anyone who wants to produce graphics that truly inform. The books are available through Graphics Press, 800-822-2454. At \$40 a piece, they aren't cheap, but Tufte's advice is invaluable. Tufte is a graphic designer and knows what works well visually and why. Still, his main concern is not how to create graphics, but why to create them in the first place. He believes graphics should always invite the reader to reflect on meaningful data; he despises their use "merely as devices for showing the obvious to the ignorant", as will you after reading his books. ♦

Have News or Views to Share?

E-mail your articles and ideas for the next issue to @nsa by 15 April 1997.

Concepts in Communication

The Newsletter of
The Pen & Cursor Society

Editor -

W9F2, 963-4754s. @nsa

The Pen & Cursor Society provides a focal point for Agency communicators involved in writing, editing, design, publishing, on-line documentation and audio/video production to share ideas. Please pass this copy on to colleagues—and encourage them to join us.

Application for Membership in the Pen & Cursor Society

Name: _____ Military or Civilian: _____
 Job Title: _____ Organization: _____
 Building: _____ Secure Phone: _____
 E-mail Address: _____ (b) (3)-P.L. 86-36

Please enclose a check for \$5, made out to P&CS, for a one-year membership.

Mail to: G253, Ops HQs, Rm 4A177.

♦ IDEAS AT WORK ♦

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[How to Join](#) | [Events](#) | [Committees](#) | [Council Members](#) | [Minutes](#) | [Charter](#) | [Paper Contest](#)

Information Technology Association

(U//FOUO) The Information Technology Association (ITA) is a professional association sponsored by the Chief Information Officer (CIO). It was chartered in January of 2000. The purpose of the Information Technology Association is to promote corporate knowledge by sharing information, encouraging partnerships, and recognizing outstanding accomplishments in the Computer Science and Information Technology Fields.



Special Interest Working Groups:

- [JAVA Users Group \(JUG\)](#)
- [Scripting Languages Users Group \(SLUG\)](#)
- [Sybase-Agency Group Exchange \(SAGE\)](#)
- [Oracle-Agency Users Group \(OUG\)](#)

Sponsored Events

(U//FOUO) The Programs Committee is coordinating with various speakers to bring you information about current technologies. This site will be updated as presentations are scheduled. ITA Affiliates will be notified via email with presentation descriptions and logistics.

(U//FOUO) Programs are open to all properly cleared Agency employees. Early registration is encouraged.

- [View on the ITA Events Calendar](#)
 - o [The 2004 Paper Contest Call for Submissions](#)
 - o [Announcing the Winners of the 2004 Paper Contest](#)

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SIGNALS ANALYSIS ASSOCIATION

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[Literature Award
Contest](#)

[Field Trips](#)

Information

[Officers](#)

[Bylaws](#)

[Membership](#)

[Newsletters](#)

Mission of the Signals Analysis Association (U//~~FOUO~~)

(U//~~FOUO~~) The Signals Analysis Association (SAA) exists to promote the field of Signals Analysis and to educate the NSA/CSS workforce and our partners in all aspects of Signals Analysis.

(U) Membership in SAA is open to all affiliated with the Agency. Joining the SAA helps to support a variety of SAA Events including our annual Literature Award Contest, Field Trips to other Agencies, and our monthly technical talks. In addition, the SAA sponsors a number of other events through financial or administrative support, including:

- The Annual [Signals Analyst of the Year Awards](#)
- The Annual [Signals Analysis and Development Conference](#) - one of a number of conferences supported by the SAA

(U) We encourage everyone to suggest ideas for technical talks, field trips and other events that the SAA could sponsor or assist in development. We are always on the lookout for interesting technical talks for our monthly meetings, feel free to volunteer yourself or someone else and we'll gladly help set things up. If you would like to help the SAA with the various events we run, feel free to get in touch as well. For any of the above concerns or any other comments or questions, contact our President or any of the other [Officers](#).

SAA || [NSA Learned Organizations](#) || [NSA](#)

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Referred to SID who recommended we refer also to
Research and CCH

SIGNALS ANALYSIS ASSOCIATION

VOLUME 1 u NUMBER 8

u BROADEN YOUR SCOPE u

1 AUGUST 1998

FROM THE SAA PRESIDENT

By [REDACTED]

To Tell the Truth

The Clinton investigation has brought up lunch table and talk show discussions on the subject of lying. There's a contingent who says that we all lie continually, anyway. Furthermore, they say we're better off telling some lies.

Although I believe I usually tell the truth, I realize that's not the case when I experience an occasional day of almost total truthfulness. This usually happens when I'm tired or about to get sick. I've found myself blurting out such things as "I'm leaving this meeting, it's putting me to sleep", or "Do we really need to discuss

this at all?" Surprisingly, no one seems to react much when I say these things, although I feel selfish when I say them.

Would total truth in the workplace be an improvement? What if incomplete Signals Analysis reports said "I gave up" instead of "Analysis continues"? What if, instead of saying, "It is intuitively obvious that..." math papers said "It can be shown that...", but the author doesn't know how to prove it or is too lazy." How about promotion write-ups that said "Her work is below average, but she deserves to get promoted eventually anyway, because, after all, 50% of us are in the bottom half." This is sounding better and better.

AND NOW THE VP

by [REDACTED]

As the summer winds down, we can begin planning upcoming meetings for the SAA. Many creative and exciting speakers and topics are being scheduled for the next few months. Hopes are high for large turnouts in the Friedman. The Literary Contest winners will be announced shortly and everyone is encouraged to attend the September meeting to help in congratulating the participants. So, with all that is coming in the next few months, everyone should be able to find that certain something that should spark an interest. I look forward to

seeing many new members as well as many old members in the upcoming months.

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SIGNALS ANALYSIS ASSOCIATION

1 AUGUST 1988

Board Notes

by [REDACTED]

This month's board meeting was held on Wednesday, July 15th.

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In Attendance:

Should SAA members in the field have to pay dues?

Some field folks feel, because they can not get some of the benefits of their membership, their membership should be free. The board reviewed this and felt that many things are offered and afforded by membership, and therefore, membership will not be free. In order to further clarify this issue, a description of what membership buys will be run in each issue of the newsletter.

Membership

Remember membership runs from April to April. Membership drives will take place in October and April of each year. Also, [REDACTED] is going to explore some ideas to provide automatic membership updates and status. Leslie will report back to the board at a later date.

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CIA trip

[REDACTED] is going to check on a possible trip to the CIA. Once she has touched base with some folks, a field trip will be planned.

Literary Contest

The review of the literary contest entrants is going well. The winner and runner up will be announced towards the middle/end of August. The award presentation will be held during the September membership meeting.

Speakers

Possible speakers for future membership meetings:

Mr. [REDACTED] - T/D NSA Research and Technology

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Mr. [REDACTED] Search at [REDACTED]

Mr. [REDACTED]

Mr. [REDACTED] NRO

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The next board meeting is scheduled for August 19th.

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1 AUGUST 1998

BROADEN YOUR SCOPE

PAGE 3

Heading Out to Pasture

by [redacted]

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The machine that we all know as [redacted] has reached the end of its useful lifetime. Alternate solutions are currently available for all functions currently performed by [redacted] will be removed from operations before October 1998.

The major services provided by [redacted] and the transition plan for them is as follows:

Signals Analysis

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There should be no signals analysis being done on [redacted]. The [redacted] software package is available and should provide a replacement capability. If you have a requirement for a program that is on [redacted] and it does not currently exist in [redacted], please contact the [redacted] team to arrange a transition. (POC: [redacted]@nsa, 963-5164s).

[redacted] files

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[redacted] files that are currently being delivered to [redacted] should now be delivered to [redacted].

This involves [redacted]

[redacted] data, as this will help distinguish our data from other data being sent to [redacted]. Other steps may be necessary for specific cases. (POC: [redacted] 963-6586s, [redacted]@nsa)

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FTPing

If you have used [redacted] for anonymous FTP, please contact your local site system administrators and/or your receiver/send of data to arrange an alternate delivery mechanism. An anonymous FTP capability for ORC purposes is currently being setup. If you need access to this service, please contact [redacted] POC: [redacted]@nsa, 963-7424).

Telneting

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If you have used [redacted] for telnet connectivity, this service will no longer be available. Please contact [redacted] if you have requirements for telnet connectivity (POC: [redacted]@nsa, 963-7424s).

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The full transition plan exists at [redacted]. Please transition any activities that are being done using [redacted] as soon as possible. A team is available to help you, please contact [redacted]@nsa.

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SIGNALS ANALYSIS ASSOCIATION

1 AUGUST 1998

SPEAKER

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SEPTEMBER 2ND, 1998(b) (1)
(b) (3)-18 USC 798
(b) (3)-50 USC 403
(b) (3)-P.L. 86-36

The next SAA Monthly Meeting will be Wednesday, September 2 at 0915 Hrs in Friedman Auditorium. [redacted] will be the featured speaker. He will present:

(S)

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(b) (3)-50 USC 403
(b) (3)-18 USC 798
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(TS-CCO) [redacted] is an anticipatory development within [redacted] to produce a comprehensive collection capability against [redacted] consists of three systems separately targeting [redacted]

(U) [redacted] which will provide worldwide mobile personal communications services, including voice, data, and paging, to its customers. These services are provided by a [redacted] which are networked to each other as well as to terrestrial control facilities. The subscriber communicates via the satellites solely by use of a handheld "flip phone."

(FOUO) The challenge posed to us by this technology is enormous. Come and see what NSA plans to do to meet the challenge.

(b) (1)
(b) (3)-50 USC 403
(b) (3)-18 USC 798
(b) (3)-P.L. 86-36**MEMBERSHIP**

Your fee supports many of the signals analysis functions held throughout the year. Among the more notables are the [redacted]

[redacted] Membership fees also allow us to provide a nice gift to the guest speakers that appear at our monthly meetings. Even field members can take advantage of these technical talks, which are broadcast over 'GIGSTER' and videotaped. The video tapes are available through S521 [redacted] (968-4477s). If you have any questions regarding your membership feel free to contact me via e-mail.

Thanks,

(b) (1)
(b) (3)-P.L. 86-36

[redacted]@nsa)

(b) (3)-P.L. 86-36

SAA Membership Chair

~~TOP SECRET CCO~~

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Welcome to the

Collection Association

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SEARCH

(U//~~FOUO~~) The purpose of the NSA/CSS Collection Association is to promote a greater degree of excellence in the performance of SIGINT Collection throughout the Cryptologic Community. The Association will, to this end, carry out a program designed to increase interaction among collectors by holding professional and social meetings and by promoting lectures, seminars and professional papers. These activities serve to advance professionalism both among certified collection officers and specialists and among those aspiring to become certified. The Association will also be a way for interested people from other fields to become involved in collection matters. The Collection Association was started in 1977.

President

[Redacted]

Acting Treasurer

[Redacted]

Secretary

TBD

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Members-at-Large

[Redacted]

TBD

TBD TBD

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6/17/2008

[Redacted]