



# Scanfax

## OCTOBER 1996

### Institute of Electrical and Electronics Engineers NEWSLETTER OF THE CHICAGO SECTION

#### Technical Programs

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- *Industry Applications/Industrial Electronics Society*  
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- *Power Engineering Society*  
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Chicago Section Meeting

Tuesday October 8, 1996 • 7:15 PM

DeVry DuPage Campus • 1221 N. Swift Road • Addison, IL

Visit the Chicago Section Home Page at <http://ieeefnal.gov>

## Off-Campus Graduate Engineering Program

*accommodating working adults with evening classes at Chicago suburban locations*

The University of Illinois at Chicago (UIC) ranks among the country's Research I institutions. We annually award approximately 200 PhD and 1,300 master's degrees. As part of its charter and the Great Cities program, we strive to serve the educational needs of the entire metropolitan area. The Off-Campus programs of the College of Engineering are accessible to working people living in the suburbs. The classes, offered one evening per week, are particularly suited to working students. Students have the opportunity to obtain an advanced engineering degree in a program designed to fit their schedules.

Reasonable cost for quality programs has long been the standard for Illinois residents at the University of Illinois campuses.

|                       |                                                |
|-----------------------|------------------------------------------------|
| Spring Semester 1997: | January 13 to May 9, 1997                      |
| CEMM 512              | <i>Theory of Traffic Flow</i>                  |
| EECS 465              | <i>Digital Networks</i>                        |
| EECS 480              | <i>Database Systems</i>                        |
| EECS 532              | <i>Advanced Digital Communications</i>         |
| EECS 551              | <i>Optimal Control</i>                         |
| ME 423                | <i>Heat Exchangers</i>                         |
| ME 512                | <i>Automatic Control of Mechanical Systems</i> |
| ME 521                | <i>Heat Conduction</i>                         |

Contact the Program Coordinator: Phone: 312/996-2311 Fax: 312/413-7950 E-mail: cmk-ob@uic.edu

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|                                                                                                                                                                                                   |                                                                                                                                             |                                                                                                                |
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| <b>IEEE CHICAGO SECTION<br/>BUSINESS OFFICE</b><br>IEEE Chicago Section<br>2460 Wisconsin Ave.<br>Downers Grove, IL 60515<br>800 898 4333 or 630 964 4333<br>630 963 2122 FAX<br>ChrisRow@aol.com | <b>EDITOR</b><br>Jack Sherman<br>1395 Highland Blvd.<br>Hoffman Estates, IL 60195<br>847 576 8222<br>847 885 4503 FAX<br>j.sherman@ieee.org | <b>CHAIRMAN</b><br>Tom Jurgens<br>333 Raddant Rd, S<br>Batavia, IL 60510<br>630 840 4803<br>t.jurgens@ieee.org |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                            |                                                                                                                                                                                                     |
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| <b>MEMBERSHIP CHANGE OF<br/>ADDRESS</b><br>For IEEE Member Services: 800 678 4333<br>member.services@ieee.org<br>IEEE Service Center, 445 Hoes Lane<br>Piscataway, NJ 08854-4150<br>Scanfax address change - notify Editor | <b>SUBMITTAL DEADLINES</b><br>Nov. issue: Sep 23. (Dec issue: Oct. 23)<br>Submit articles to editor.<br><b>ADVERTISEMENTS - Nov. issue: Sep 20;<br/>(Dec issue: Oct. 20)</b><br>Call BusinessOffice |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

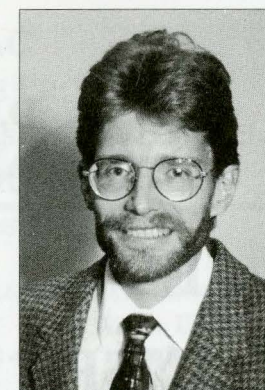
## The Chair's Message

Another meeting season is upon us. With the next millenium lurking around the corner, a recurring question nags me. Are we ready?

The changes we've seen in the past few years, with downsizings and budget balancing occurring in parallel with explosive growth in some industries, portends a very different landscape after the year 2000.

Preparing for these interesting times includes enhancing your employability, reinvigorating your skills, and nurturing a professional network.

The IEEE meetings and conferences available in the Chicago area provide opportunities for your professional growth. But go a step futher, get involved with the local entity of your choice. In that way you can directly affect the content of services that the Section and its constituent Subsections and Chapters offers.



Thomas Jurgens

## Sections Congress

The IEEE Sections Congress will be held November 1 - 4 1996. It is a triannual meeting which brings together hundreds of local IEEE volunteer leaders, primarily Section Chairs as well as Chapter representatives from all ten Regions. One of the purposes of the Congress is to provide a forum where the Section Chairs and other local leaders speak as the collective voice of IEEE membership, expressing ideas, raising issues, and generating recommendations about how the Institute can better serve its members. The recommendations produced at previous Section Congresses have had a major impact on plans made by the IEEE leadership.

I will be attending, representing the Chicago Section. Please contact me with regard to your comments and ideas.

Regards,  
Tom Jurgens, IEEE Chicago Section Chair. t.jurgens@ieee.org

# D.L.S. ANNOUNCES EUROPEAN EMC SEMINAR SERIES



Introduction to European EMC  
Presented by D.L.S. Electronic Systems

## SEMINAR TOPICS

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- EMC Directive 89/336/EEC
- How to meet the requirements
- Declaration of Conformity
- Technical Construction File
- CISPR/EN Emissions
- IEC/EN Immunity
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Class size is limited.
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  - When: 1<sup>st</sup> & 3<sup>rd</sup> Wednesday each month
  - Time: 1 - 3 pm plus tour
  - Cost: \$35 including handout
- Please advise us at the time of registration if you are physically challenged and require special accommodations.  
D.L.S. reserves the right to adjust the schedule and limit the number of people attending from one company.

\*About European EMC



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**Joint Chapter  
NUCLEAR &  
PLASMA  
SCIENCES and  
MAGNETICS  
SOCIETIES**

**TOPIC: 3He LINAC  
FOR PET ISOTOPE PRODUCTION**  
**SPEAKER: Ralph J. Pasquinelli, Fermilab**  
**DATE: Tuesday October 1, 1996**  
**DINNER: 6:30 PM ..Cost: \$15.00**  
**TALK: 7:30 PM**  
**LOCATION: IIT RICE CAMPUS. 201 EAST LOOP ROAD  
WHEATON, IL 60187**

**RESERVATIONS: IEEE BUSINESS OFFICE 800 898 4333; 630 964 4333**  
**FURTHER INFORMATION: FRANCOIS OSTIGUY .....630 840 2231**  
**...or see the IEEE Chicago Section Web Page <http://ieeefnal.gov>**

## Abstract

In 1995, Fermilab and SAIC formed a collaboration with partners from the University of Washington (UW) and the Biomedical Research Foundation of Northwest Louisiana (BRF) to explore an innovative approach to the production of radioisotopes. The accelerator system that is being developed accelerates <sup>3</sup>He to 10.5 MeV and then delivers this beam to the target to produce short lived radioisotopes of interest to the PET community (<sup>18</sup>F, <sup>15</sup>O, <sup>13</sup>N, <sup>11</sup>C). Research is being conducted to investigate the contribution that this promising approach can make to clinical and research PET.

The accelerator system has several very interesting aspects. These innovations include multiple RFQ accelerators configured in series, a gas stripper jet to doubly charge the low energy (1 MeV) <sup>3</sup>He beam, and an isochronous matching section to manipulate the transverse and maintain the longitudinal profile of the beam (without the use of an RF buncher) in the charge doubler transition section between RFQ's.

Ralph J Pasquinelli is an Electrical Engineer specializing in RF and Microwave systems. He is currently a member of the Antiproton Source Department at the Fermi National Accelerator Laboratory where he has been working since 1978.

He holds a BS and an MS degree in Electrical Engineering from the University of Illinois, Champaign/Urbana

## SPOTLIGHT



The primary mission of the Chicago Chapter of the Industry Applications (IAS) and Industrial Applications Society (IES) is to provide our members with 1) overall services which will promote increased professional competence, and 2) a networking environment for people within

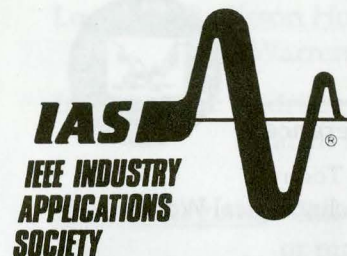
the Chicago Area Electrical Industry. By successfully accomplishing this primary mission, the secondary mission of increasing IEEE membership and attendance at IAS/IES meetings will be obtained. Lets take a closer look at both aspects of the primary mission.

The promotion of increased professional competence is obtained by providing a high quality program of topics and speakers which is relevant to our membership and meeting attendees. We conducted a survey to determine which topics would be of interest to our members and those attending our meetings. Members ranked the listed programs and added their own topics of interest. A program schedule was developed, topics were selected, and recognized expert speakers were chosen and scheduled. In many cases, depending on State requirements, Professional Engineers may include these meetings for Professional Development Units to meet the continuing education requirements. Last year's successful seasons topics included:

- Airfield Lighting, Peter Contos; - TVSS-Tycor Co., Tom Muller
- Lightning Protection, Tom Hager - Motors, Dreisilker Co., Howard Penrose
- City of Chicago Code Requirements,- Tim Cullerton
- Ground Fault Protection, GE, Joe Mallon
- Harmonics - Westinghouse, Dave Shipp
- Generator Panel - Onan, Tim O'Connell; Waukesha, John Conway;
- Kohler, George Scilfee; Caterpillar, Gene Richards
- 96 NEC/Chicago Code- Midwest Interstate Co., Dan Caddigan

- 1996-97 Schedule of Meetings
- 9-11-96 Battery Room Layout
- 10-16-96 NEMA vs IEC Motor Control Standards
- 11-20-96 CECO Metering Practices
- 1-29-97 ANSI C37.20 Low Voltage Switchgear
- 3-26-97 ANSI C37.20 Medium Voltage Switchgear
- 5-14-97 City of Chicago Approval Process

The meetings are held with a social half hour before the dinner, and the speaker follows the dinner. When the speaker has completer, there is time for questions and answers. This allows fo time time to interchange ideas and experiences, as well as for general networking. Because of the wide range of attendees representing various aspects of the industry, various viewpoints are obtained.



## NEMA vs IEC MOTOR STANDARDS AND APPLICATIONS

Presenter:  
Ron Levy, Allen Bradley

Wed, Oct 16, 1996

Please join us for a presentation on NEMA vs IEC Motor Standards and Applications. Our presenter is Ron Levy of Allen Bradley. Ron graduated from Iowa State University in 1964. He has 12 years of industrial control experience and is currently Chicago Region Standard Control Area Manager. His responsibilities include commercial marketing, technical support, and design feedback for A-B's line of Industrial Control Products.

### PLACE

Como Inn  
546 N. Milwaukee Ave.  
Chicago, IL

### TIME

Social ..... 5:30 PM  
Dinner ..... 6:00 PM  
Presentation ..... 7:00 PM

### DIRECTIONS

*From the North:* Take 90/94 to Ogden Avenue exit. Turn left onto Ogden to Milwaukee Avenue. Turn right on Milwaukee and proceed south. The Como Inn is located just over the expressway.

*From the South:* Take 90/94 to Lake Street exit. Turn left on Lake to Halsted Street. Turn right on Halsted to Milwaukee Avenue. Turn left on Milwaukee to the Como Inn.

*Parking:* Two large free self park lots are available or valet service at the Como Inn entrance on Ohio Street.

**Dinner cost \$20. Menu choice Chicken or Pasta entree.**

**FOR RESERVATIONS call the IEEE Business Office at (800) 898-4333.**

**FURTHER INFORMATION - Pat Hennelly at (847) 398-4510.**

Meeting attendance and IAS/IES Membership is on the increase. let us know what other topics and services you need to meet your particular needs. Our attendees include inspectors, commercial developers, owners design engineers, electrical contractors, manufacturers, distributors - a wide range of the Electrical Industry. All our meetings are held at the Como Inn.

- IAS/IES Chapter Chair-

Geraldine Ryan, CTE Engineers 312 938 0300 Fax 312 938 1109

# ProCon '96

## Professional and Personal Growth Conference

Theme: Continue Your Growth to Thrive in Today's  
Competitive and Ever Changing Technological World

**Thursday, October 24, 1996**

### ProCon'96 Program

7:30 - 8:10 AM Registration/Morning Beverages  
8:10 - 8:20 AM Opening Remarks  
8:20 - 8:50 AM Welcome Address - *by Kenneth R. Laker of Univ. of Penn.*  
9:00 - 11:45 AM Three Concurrent Seminars

**INTERNET WEB PROGRAMMING** - *by Guy Starnier of Lucent Technologies*  
Learn about Web-based programming applications such as the Common Gateway Interface (CGI) on the server side, and Javascript and Java on the client side. Know how to apply these technologies in your business applications.

**FROM INCEPTION TO MARKET** - *by Bijoy K. Dash of Dash Labs*  
An introduction of how to take a technological product from its inception to market. Issues concerning R&D, manufacturing, and commercialization of the product will be discussed.

**HOW TO INCREASE THE HALF-LIFE OF YOUR CAREER CONTINUOUSLY** -  
*Panel Discussion by Trudy E. Bell of IEEE Spectrum Magazine, Robert V. Binder of RBSC, Dr. Myron Ginsberg of EDS, and Michael Hanley of Zenith Electronics*  
This panel of experts will give insights on how to stay on top of your career. They will discuss for example, the importance of technical training; the impact of mentors; putting together career roadmaps; and developing good communication skills.

12:00 - 1:00 PM Lunch  
1:00 - 1:30 PM "Secret of Success" - *by Jim Watson of Watson Assoc.*  
1:45 - 4:30 PM Repeat of Seminars  
4:30 - 5:00 PM Closing Remarks/Raffle/Door Prizes  
5:00 - 6:00 PM Networking Social/Cash Bar



Sponsored by:  
Fox Valley Subsection  
Computer Society Chapter of Chicago  
Chicago Section



Location: Radisson Hotel Lisle - Naperville  
3000 Warrenville Road, Lisle, IL 60532

Information: Adrienne Novick, (630) 252-6630, ahnovick@anl.gov  
Martin Lake, (630) 224-6626, m.lake@ieee.org

**How to Register:** Call the IEEE Business Office at (800) 898-IEEE  
or mail the registration form below.

### ProCon'96 Early Registration Form Valid Until October 18th

Name \_\_\_\_\_  
Affiliation \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_  
Daytime Phone ( ) \_\_\_\_\_  
FAX ( ) \_\_\_\_\_ E-mail \_\_\_\_\_

#### Registration Fees

☐ IEEE Member ..\$55.....\$75\*    ☐ IEEE Student Member..\$25 ....\$35\*  
☐ Non-Member ..\$85.....\$115\*    ☐ Student Non-Member ..\$40 ....\$55\*  
\*Registration Fee After October 18th

#### Lunch Selection

☐ Grilled Chicken    ☐ Steamed Vegetables over Rice    ☐ Beef Stir-Fry

#### Seminar Sign-Up (Choose two)

☐ Internet Web Programming    ☐ From Inception to Market  
☐ How to Increase the Half-Life of Your Career Continuously

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On October 30, 1997, the Biomedical Engineering Community will gather in Chicago

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30 October to 2 November 1997

*"Magnificent Milestones and Emerging Opportunities in Medical Engineering"*



EMBS'97

Plan now to attend EMBS'97. The venue for the conference is the Chicago Marriott Downtown, located along Chicago's Magnificent Mile, in the middle of world class shopping, restaurants, and cultural events.

Technical Program Highlights: The technical sessions will include both poster and platform sessions. Posters will be prominently displayed in the Grand Ballroom, along with the Exhibits and Coffee Break Areas. Meeting topics include:

- Cardiovascular System
- Imaging/Image Processing
- Clinical Engineering
- Medical Informatics
- Neuromuscular Systems
- Physiological Systems
- Instrumentation, Sensors, Devices
- Signal Processing
- Electromagnetic Issues
- Developing Areas

A number of mini-symposia will be held in parallel with the technical sessions and over the lunch hours. In addition to the technical sessions, many pre-conference workshops are being planned, which will be held on October 28 and 29.

Students, please note there will be an IEEE/EMBS Whitaker Foundation Student Paper Competition, and an Undergraduate Student Design Competition.

Web Update: <http://www.eecs.uic.edu/~embs97>

email: [embs97@ieee.org](mailto:embs97@ieee.org)

### Conference Secretariat

Meeting Management  
2603 Main St.  
Suite 690  
Irvine CA 92714 USA  
tel +1 (714)-752-8205  
fax +1 (714)-752-7444  
[MeetingMgt@aol.com](mailto:MeetingMgt@aol.com)

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tel +1 (312)-567-3926  
fax +1 (312)-567-5707  
[jaeger@charlie.cns.iit.edu](mailto:jaeger@charlie.cns.iit.edu)

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fax +1 (312)-413-0024  
[agarwal@eecs.uic.edu](mailto:agarwal@eecs.uic.edu)



PAPER DEADLINE IS 1 MAY 1997

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## ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY

## SPOTLIGHT

The Engineering in Medicine and Biology Society addresses the needs of engineers and other professionals working on engineering problems in medicine and biology. The field of interest covers a wide range of topics, including mathematical modeling, signal and image processing, instrumentation, and clinical engineering. The society published three quarterly and one monthly technical publication. All EMBS members receive the quarterly magazine, which contains overview articles about recent developments in biomedical engineering. Additionally, the society sponsors an annual international conference, which in 1997 will be held in Chicago.

Recently, a steering committee was formed to plan activities of interest to the approximately 200 EMB members in the Chicago Section. Technical presentations are scheduled almost monthly - in the next few months there will be presentations on restoration of function after spinal injury, filmless radiology and telemedicine, and FDA regulatory affairs.

The steering committee is eager to receive input from the membership. We are asking for suggestions on topics of interest, possible speakers, and ideas for other types of activities. In the spring, there will be an election of officers for the chapter. We are seeking volunteers to serve as officers. To obtain information on EMB, to provide input to the steering committee, or to volunteer to serve in Chicago EMB, please contact Dr. Judy gemperline, the steering committee chairperson, at the address below:

Dr. Judy Gemperline 20650 Elizabeth Ave, Lincolnshire, IL 60069  
Phone 847 459 9265.... or [j.gemperline@](mailto:j.gemperline@)

\*\*\*\*\*

## Power Engineering Society- - - - - Meeting Notice

DATE:.....Wed Oct 16

PLACE:.....Chicago Bar Assn 321 So Plymouth Court, Chicago  
(near Jackson & Dearborn)

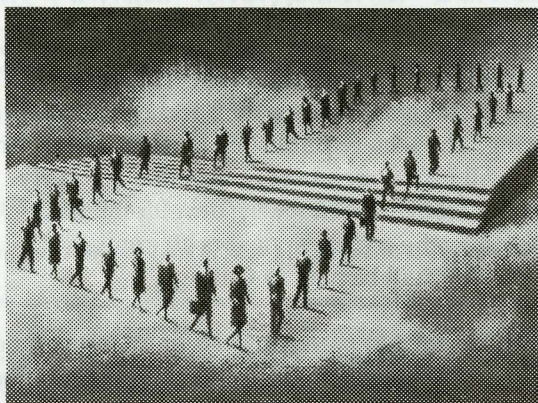
TIME:.....11:30 AM, Social; 12 Noon, Lunch; 12:30 PM Presentation  
(Lunch Tickets may be purchased in the lobby, \$ 8.50)

TOPIC:.....Latest Trends in Relaying Technology

SPEAKER:.....Charlie Sufana, - Commonwealth Edison

RESERVATIONS:.....IEEE Chicago Business Office..800 898 4333

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## CONTACT:

**Dan Kesselring**

Associate Director of  
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| <input type="checkbox"/> Telecommunications Management (Addison Only) |                                      |

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ELECTRON DEVICES SOCIETY  
WITH  
FOX VALLEY SUBSECTION  
AND  
ENGR. MANAGEMENT & PROF. COMM. SOCIETY

## COMPETITION AND THE COPY CATS Survival Tactics of the Electronic Industry

Presented by  
Pierre Dumay  
WESTELL

**Wednesday, November 6, 1996**

## ABOUT OUR TOPIC

As the pace of progress in the Electronics/Computer industry continues to accelerate, the ability to react to technological changes becomes more important. In this presentation, Mr. Dumay will analyze the history and outcome of several complex, high risk projects, some of them quite amusing, to identify the key factors which have distinguished the winners from the losers. From the creation of new markets to the forced transfers of technology of the cold war, the ability to acquire new technology has defined which companies have dominated high-technology markets, and for how long. The case histories presented will be compared and used to draw conclusions which will help current developers and technocrats.

## ABOUT OUR SPEAKER

Mr. Dumay is the current chairman of the Fox Valley Subsection of the IEEE. He holds a BSEE and an MS and has several years of experience in the electronic industry. He comes from a varied background which includes audio, automotive and industrial controls. For the last 7 years, Mr. Dumay has worked in the telecommunication industry and is currently with WESTELL of Oswego, IL.

## PLACE

Jerry Sharko's  
2225 Ogden Ave.  
Lisle, IL

## TIME

|                   |         |
|-------------------|---------|
| Social.....       | 6:00 PM |
| Dinner.....       | 7:00 PM |
| Presentation..... | 8:00 PM |

## NOTES

Optional dinner costs \$15.00. Meal includes chicken, pasta, and vegetable served family style. Vegetarian platter can be requested when making reservations.

## FOR RESERVATIONS

Please call the IEEE Business Office at (800)898-IEEE by Monday, November 4th.

## FOR FURTHER INFORMATION

Contact Mike Banak at (630)898-2800 x436

| TECHINICAL SOCIETY MEMBERSHIP BY MEMBER GRADE                  |    |     |     |    |    |     |      |     |     |     |  |      |
|----------------------------------------------------------------|----|-----|-----|----|----|-----|------|-----|-----|-----|--|------|
| SOCIETY                                                        | LF | LS  | LM  | LA | F  | SM  | M    | A   | S   | AF  |  | TOT  |
| NONE                                                           | 13 | 112 | 201 | 22 | 2  | 40  | 1321 | 168 | 356 | 0   |  | 2235 |
| 01SP                                                           | 1  | 4   | 0   | 2  | 1  | 19  | 204  | 15  | 44  | 1   |  | 291  |
| 02BT                                                           | 4  | 6   | 36  | 1  | 0  | 1   | 39   | 10  | 5   | 0   |  | 102  |
| 03AP                                                           | 1  | 6   | 8   | 0  | 8  | 29  | 120  | 8   | 14  | 0   |  | 194  |
| 04CAS                                                          | 1  | 1   | 4   | 3  | 4  | 7   | 144  | 8   | 32  | 0   |  | 204  |
| 05NPS                                                          | 0  | 1   | 4   | 0  | 1  | 5   | 34   | 3   | 6   | 3   |  | 57   |
| 06VT                                                           | 2  | 5   | 7   | 2  | 1  | 9   | 128  | 12  | 11  | 0   |  | 177  |
| 07R                                                            | 1  | 3   | 5   | 0  | 0  | 8   | 51   | 2   | 2   | 0   |  | 72   |
| 08CE                                                           | 7  | 16  | 20  | 2  | 2  | 5   | 106  | 15  | 11  | 4   |  | 188  |
| 09IM                                                           | 0  | 3   | 9   | 0  | 1  | 9   | 43   | 5   | 4   | 0   |  | 74   |
| 10AES                                                          | 1  | 0   | 2   | 0  | 1  | 4   | 27   | 2   | 7   | 1   |  | 45   |
| 12IT                                                           | 1  | 0   | 1   | 0  | 2  | 11  | 42   | 3   | 14  | 0   |  | 74   |
| 13IE                                                           | 0  | 4   | 7   | 1  | 0  | 7   | 62   | 7   | 1   | 0   |  | 89   |
| 14EM                                                           | 2  | 6   | 8   | 0  | 2  | 13  | 188  | 17  | 107 | 2   |  | 345  |
| 15ED                                                           | 1  | 1   | 5   | 0  | 4  | 12  | 37   | 4   | 11  | 0   |  | 75   |
| 16C                                                            | 5  | 21  | 17  | 4  | 7  | 38  | 898  | 153 | 159 | 426 |  | 1728 |
| 17MTT                                                          | 1  | 4   | 4   | 0  | 0  | 3   | 52   | 5   | 5   | 0   |  | 74   |
| 18EMB                                                          | 1  | 4   | 5   | 0  | 5  | 6   | 75   | 9   | 29  | 1   |  | 135  |
| 19COM                                                          | 6  | 17  | 11  | 2  | 4  | 48  | 636  | 82  | 89  | 19  |  | 914  |
| 20UFC                                                          | 1  | 2   | 1   | 0  | 2  | 7   | 27   | 1   | 4   | 0   |  | 45   |
| 21CPMT                                                         | 0  | 5   | 4   | 1  | 2  | 9   | 46   | 7   | 1   | 1   |  | 76   |
| 22OE                                                           | 1  | 2   | 3   | 1  | 1  | 1   | 4    | 1   | 2   | 0   |  | 16   |
| 23CS                                                           | 1  | 0   | 3   | 1  | 2  | 6   | 87   | 8   | 25  | 4   |  | 137  |
| 24RA                                                           | 0  | 4   | 2   | 1  | 1  | 6   | 54   | 10  | 2   | 1   |  | 81   |
| 25E                                                            | 0  | 2   | 1   | 0  | 1  | 1   | 12   | 3   | 6   | 0   |  | 26   |
| 26PC                                                           | 0  | 3   | 3   | 2  | 0  | 4   | 37   | 7   | 3   | 4   |  | 63   |
| 27EMC                                                          | 1  | 6   | 9   | 0  | 1  | 12  | 75   | 9   | 1   | 0   |  | 114  |
| 28SMC                                                          | 0  | 3   | 0   | 1  | 0  | 4   | 24   | 5   | 14  | 0   |  | 51   |
| 29GRS                                                          | 2  | 0   | 1   | 0  | 1  | 1   | 5    | 3   | 1   | 0   |  | 14   |
| 30SIT                                                          | 1  | 3   | 2   | 0  | 1  | 1   | 26   | 8   | 5   | 0   |  | 47   |
| 31PE                                                           | 10 | 42  | 34  | 0  | 2  | 56  | 359  | 25  | 8   | 0   |  | 536  |
| 32DEI                                                          | 0  | 3   | 5   | 0  | 0  | 5   | 30   | 3   | 2   | 0   |  | 48   |
| 33MAG                                                          | 1  | 2   | 4   | 0  | 0  | 7   | 27   | 6   | 1   | 1   |  | 49   |
| 34IA                                                           | 2  | 19  | 22  | 0  | 0  | 22  | 208  | 13  | 0   | 0   |  | 286  |
| 35PEL                                                          | 1  | 2   | 4   | 0  | 0  | 6   | 74   | 4   | 7   | 0   |  | 98   |
| 36LEO                                                          | 1  | 1   | 3   | 0  | 2  | 7   | 52   | 7   | 14  | 1   |  | 88   |
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