

# 1997 ECS Annual Report

*More extensive and valuable benefits made it a very good year*

It gives me great pleasure to report that 1997 was a very successful year for the Society. The charts and graphs in this report show an increase in membership, growth in the publications and meetings, and a financial surplus. These figures are positive indicators of the vitality of the Society, but the true success of 1997 lies in the progress we have made to provide more extensive and valuable membership benefits.

We published more pages in our flagship publication, the **Journal of The Electrochemical Society**, than ever before, with a continuing degree of high quality and good lagtime. In fact, we improved the **Journal** production schedule so far as to distribute the **Journal** five weeks earlier than we did just one year ago. The growth in manuscript submissions and interest in electronic publications led to our decision to break out the "Letters section" of the **Journal** into a separate monthly publication (in electronic and paper editions). *Electrochemical and Solid-State Letters* will premiere in July 1998. This new, electronic journal, will also be a rapid-publication venue (8-10 weeks from submission to electronic publication), and available to all members at no additional cost.

Attendance at both the Montréal and Paris Meetings was excellent. The extensive program and large attendance at the Meeting in Paris, France, was a clear indication of the significant international scope of the Society. Furthermore, the Society's electronic meeting abstract submission program (ECSTASI) has made it fast and easy for authors from all over the world to submit meeting abstracts electronically, and for our most recent Meeting, has enabled over 50% of the authors to submit abstracts electronically. Meeting abstracts are now available from our Web site at no charge prior to the Meetings, and in 1998, we have made a commitment to put 100% of the abstracts online.

Speaking of the ECS Web site, I hope you have had a chance to visit the "Members Only" section, where you will find *Letters Online*, the Membership Directory, and the Career Services and Job & Resume Bank. And while you're at our Web site, check out the powerful publications search engine, review the next semi-annual Meeting program, or just browse through the many useful features of the site.

No other professional Society provides its members with such an extensive benefits package at such a reasonable cost. We have added significant value to the membership package without an increase in cost to our members. (In fact, membership dues have not increased since 1994.) I hope you enjoy these new benefits and find them valuable in your professional pursuits, and we look forward to your continued interest in the Society.



Roque J. Calvo  
Executive Director

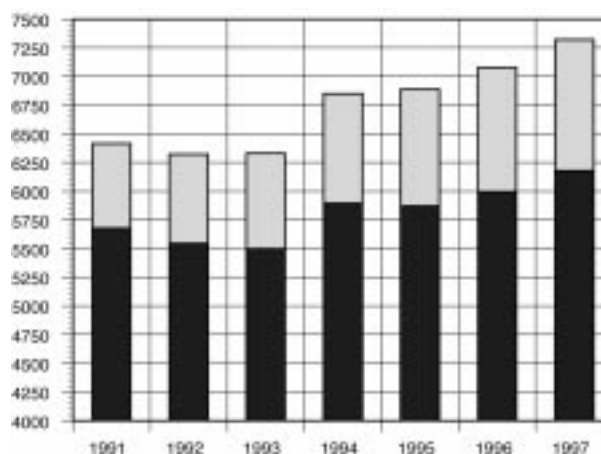


FIG. 1. Society membership levels for the past six years. (■ Student and ■ Active and Other.)

**Table I. ECS Membership Statistics**  
(As of October 1, 1997)

### ECS Membership by Class

Category	1993	1994	1995	1996	1997	1997/1996 % Change
Active	4677	4855	4804	4952	5148	4.0
Member Reps	88	87	81	93	83	(10.8)
Life	59	60	59	58	58	0.0
Emeritus	186	182	201	203	220	8.4
Honorary	27	27	27	28	27	(3.6)
<b>Subtotal Active in Good Standing</b>	<b>5,037</b>	<b>5,211</b>	<b>5,172</b>	<b>5,334</b>	<b>5,536</b>	<b>3.8</b>
Delinquent	459	681	700	662	642	(3.0)
<b>Total Active on Record</b>	<b>5,496</b>	<b>5,892</b>	<b>5,872</b>	<b>5,996</b>	<b>6,178</b>	<b>3.0</b>
Students	690	758	799	865	887	2.5
Delinquent	145	201	217	218	256	17.4
<b>Total Students</b>	<b>835</b>	<b>959</b>	<b>1,016</b>	<b>1,083</b>	<b>1,143</b>	<b>5.5</b>
<b>Total Individual Members</b>	<b>6,331</b>	<b>6,851</b>	<b>6,888</b>	<b>7,079</b>	<b>7,321</b>	<b>3.4</b>

### ECS Membership by Sections

Section	1993	1994	1995	1996	1997	1997/1996 % Change
Canadian	237	226	188	194	248	27.8
Chicago	183	190	179	210	183	(12.9)
Cincinnati	66	52	45	40	46	15.0
Cleveland	120	112	108	111	112	0.9
Columbus	59	63	73	66	66	0.0
Detroit	80	86	91	98	91	(7.1)
European	448	589	750	813	891	9.6
Georgia	100	112	143	157	162	3.2
Israel					30	
Japan	369	428	455	514	575	11.9
Metropolitan New York	449	404	413	401	381	(5.0)
Midland	22	23	19	18	20	11.1
National Capital	214	188	197	194	192	(1.0)
New England	385	349	329	323	337	4.3
North Texas	190	205	186	182	179	(1.6)
Pacific Northwest	88	109	113	109	100	(8.3)
Philadelphia	194	178	161	172	159	(7.6)
Pittsburgh	79	84	96	90	86	(4.4)
San Francisco (ES&T)	137	185	148	138	153	10.9
San Francisco (SS&T)	408	417	381	362	347	(4.1)
South Texas	141	171	184	192	209	8.9
Southern California/Nevada	236	231	213	223	231	3.6
Southern Wisconsin	58	52	64	62	56	(9.7)
Twin Cities	104	102	98	98	98	0.0
Non-Section	1,362	1,413	1,337	1,432	1,471	2.7
<b>Subtotal All classes (current)</b>	<b>5,727</b>	<b>5,969</b>	<b>5,971</b>	<b>6,199</b>	<b>6,423</b>	<b>3.6</b>
Delinquents (Active and Student)	604	882	917	880	898	2.0
<b>Total</b>	<b>6,331</b>	<b>6,851</b>	<b>6,888</b>	<b>7,079</b>	<b>7,321</b>	<b>3.4</b>

## Membership

Membership continued to grow in 1997, with a record high of 7,321 members (see Fig. 1 and Table I). Two Local Sections, Canadian and Cincinnati experienced significant growth, and the Society welcomed a new Local Section, Israel. Overall, Divisions and Groups experienced growth, with the largest change occurring for the Society's newest Group, Fullerenes.

The number of new members increased to 1,114, with a 4.0% increase in the Active Member category overall. The number of student members increased by 2.5%, as did the number of students converting to active membership. The number of delinquent active members decreased by 3.0%, an indicator of member satisfaction. The Society continues to make efforts to provide meaningful member benefits and to cultivate future new members, surveying current members as to their preferences and needs, and this past year, through establishing ad hoc long range planning committees on international membership and member benefits.

The Contributing Membership program was thoroughly reviewed and revised, and the categories and benefits were restructured to provide more flexibility in the benefits packages. A new category was added, that of Sponsoring (\$1,200 annual contribution), bringing the total number of levels to four. As of September 1997, there were 72 Contributing Members.

In addition to the Membership and Administration Manager, Ellen Tiano, the Membership staff includes Joan Bratsko. Barbara J. Baggott serves as ECS Affiliates Coordinator, and Elizabeth Brennfleck serves as Administrative Assistant to the Executive Director.

## Publications

The most exciting development in 1997 was the approval of a plan to publish (with a July 1998 premiere), *Electrochemical and Solid-State Letters*. *Letters* is a natural outgrowth of the Letters section of the Society's *Journal*, which has grown substantially over the years. Manuscripts accepted for *Letters* will be published in just 8-10 weeks (from submission to electronic publication). Papers will be collected into an issue and printed monthly, approximately 2-4 weeks after the electronic issue has closed. *Letters* is another valuable benefit being added to the ECS membership package.

The Society's flagship publication, *Journal of The Electrochemical Society*, had another record-breaking year. A total of 812 technical manuscripts (118 Letters,

Fig. 2. JES Manuscript submission by affiliation. (■ Academia, ■ Government, and ■ Industry)

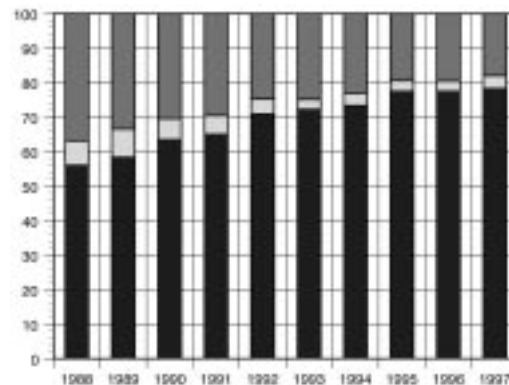


Fig. 3. JES Manuscript submission by country. (■ USA and ■ Other)

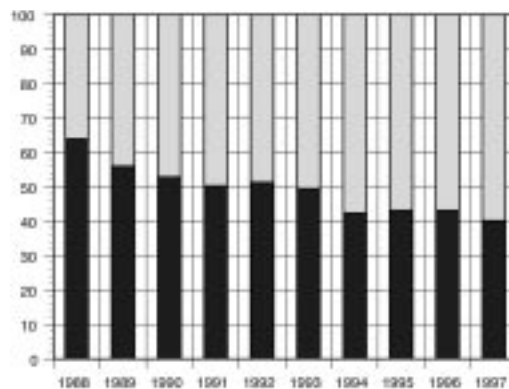
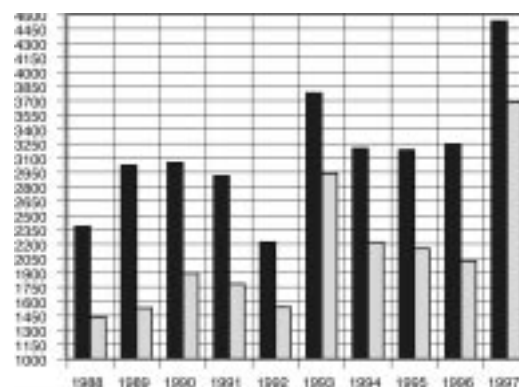


Fig. 4. ECS Meeting Paper submission and attendance. (■ Attendance and ■ Papers)



388 electrochemical science and technology papers, 303 solid-state science and technology papers, and 3 reviews) were published in 4,681 pages of the *Journal*. The lagtime (the number of months from the date the manuscript is received to the publication date) averaged 8.9 months in 1997. The publication saw a record number of color figures reproduced on its pages. The source for manuscripts showed a slight increase in those received from academia, and a slight decrease in those received from industry, as shown in Fig. 2. The international importance of the *Journal* continued and is clearly evident in Fig. 3. Paul A. Kohl, of the School of Chemical Engineering at Georgia Institute of Technology, continued as *Journal* Editor. The *Journal* welcomed two new Associate Editors: Daniel A. Scherson, Case Western Reserve University, and Thomas P. Moffat of the National Institute of Stan-

dards and Technology. Work was begun on new projects, including the introduction of an online version of the Letters section of the *Journal*.

Four issues of *Interface*, the members magazine, were published in 1997, featuring the Corrosion, Energy Technology, and the Organic & Biological Electrochemistry Divisions. The Spring issue was a dedicated special issue, whose cover story celebrated the 50th anniversary of the transistor, and featured an interview with Gordon Moore, co-founder of Intel. The publication included the programs for, and highlights from, the twice-annual Society meetings. Jan B. Talbot, of the Department of Applied Mechanics & Engineering Sciences at the University of California at San Diego, continued as Editor. Mary E. Yess, ECS Publications Manager continued as Managing Editor.

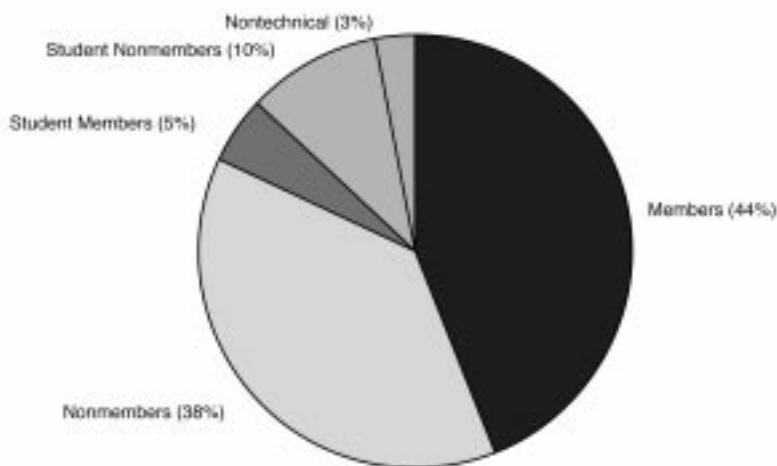


FIG. 5. Average ECS meeting attendance by attendee affiliation for 1987-1997.

**TABLE II. ECS Balance Sheet**  
(Years Ended December 31, 1997 and 1996)

<b>Assets</b>		
	<u>1997</u>	<u>1996</u>
<b>Current Assets:</b>		
Cash.....	\$113,674	\$102,336
Accounts Receivable, less allowance for doubtful accounts of \$4,000 in 1997 and 1996 .....	188,830	139,693
Inventories.....	27,523	15,773
Prepaid expenses, deposits, and other assets.....	118,093	84,701
Investments (note 2):		
Shared investment fund .....	5,778,818	3,754,500
Other investments.....	1,738,007	2,713,672
Land.....	30,769	30,769
Building, less accumulated depreciation of \$86,543 in 1997 and \$80,523 in 1996.....	154,257	160,277
<b>TOTAL CURRENT ASSETS .....</b>	<b>\$8,149,971</b>	<b>\$7,001,721</b>
<b>Liabilities and Net Assets</b>		
	<u>1997</u>	<u>1996</u>
<b>CURRENT LIABILITIES:</b>		
Accounts payable and accrued expenses .....	\$112,577	\$125,606
Deferred revenue .....	1,074,862	938,970
Deferred compensation .....	107,046	123,501
<b>TOTAL CURRENT LIABILITIES .....</b>	<b>1,294,485</b>	<b>1,188,077</b>
<b>NET ASSETS:</b>		
Unrestricted:		
General operating .....	735,067	1,766,716
Investment in land and building .....	185,026	191,046
Custodial .....	4,926,917	2,907,889
Local Sections .....	103,449	101,382
Designated.....	225,021	199,714
Designated Earnings .....	38,091	27,336
<b>TOTAL UNRESTRICTED .....</b>	<b>6,213,571</b>	<b>5,194,083</b>
Temporarily restricted (Note 4) .....	271,715	249,361
Permanently restricted (Note 4) .....	370,200	370,200
<b>TOTAL NET ASSETS .....</b>	<b>6,855,486</b>	<b>5,813,644</b>
<b>TOTAL LIABILITIES AND NET ASSETS .....</b>	<b>\$8,149,971</b>	<b>\$7,001,721</b>

See accompanying notes to financial statements.

**Proceedings** volumes are a large part of the ECS publication program, and there was a dramatic increase in the number of volumes to be published from 1997 (40), all of which were hardcover; 17 volumes were published from the Montréal, Québec, Canada (Spring) Meeting; and 19 volumes to date have been published from the Paris, France (Fall) meeting. The year saw a first in this area: that of a special co-distribution arrangement with SPIE.

**Meeting Abstracts** volumes continue to be well-received as evidenced by sales figures: the total number sold in 1997 was 3,340, compared with 3,085 in 1996. Beginning with the San Diego, California (Spring 1998) Meeting, meeting registration will automatically include a copy of the volume.

The Society's **Monograph Series**, published by John Wiley & Sons, Inc., continues to provide scholarly books that add to the prestige of ECS's publications program, as well as a revenue stream. Four monograph manuscripts were active in 1997. Royalties from this series increased in 1997, to just over \$8,500.

In addition to the Publications Manager, Mary E. Yess, the Publications staff included Artie Ann Berry, Anne Clementson, Paul Cooper, Thérèse A. Cooper, Cynthia Freeman, Patricia Lorynski, and Janey Dean.

## Meetings

The Society continued its string of excellent meetings, with two highly successful meetings in Montréal and Paris. Coupled with these two outstanding meetings, the online submission of meeting abstracts continued to grow, with 40% of the presenting authors for each meeting utilizing this Web-based mode of transmitting their meeting abstracts to Society Headquarters.

The 1997 Spring Meeting was held in Montréal with 1,581 attendees traveling to Old Montréal. To celebrate the 50th anniversary of the transistor, Gordon Moore, former chairman of the board and co-founder of Intel, delivered the Plenary Lecture that led off 1,217 technical papers in 36 outstanding symposia.

The Fall Meeting in Paris was a meeting of many firsts, attracting 2,952 attendees to hear 2,463 technical papers in 24 topical symposia. This meeting was the first Society Meeting in Europe, the first collaboration with the International Society of Electrochemistry, had record number of meeting attendees, and a record number of technical presentations.

FIG. 4 on page 60, displays the ratio of attendees to presentations over the last ten years, which is 1:1.54. This ratio is experiencing a steady decline that is indicative of the need for attendees to present papers in order to receive travel approval. Also of



interest is the breakdown of attendee affiliation, shown in FIG. 5. Society Meetings attract approximately an equal number of members and nonmembers. This unique blend gives attendees the opportunity to exchange ideas and interact with colleagues from a variety of diverse backgrounds, and is one of the unique characteristics of ECS Meetings.

## Online Services

The Society's online services continue to expand, providing many new and innovative ways to enhance our global communications and member services. The ECS Web Site (<http://www.electrochem.org>) continued to add a number of new features such as: a "Members Only" section that contains a membership directory, career services and job opportunities, a resume bulletin board, and an ECS discussion group. Online submission of Meetings abstracts became easier with the launching of ECSTASI 2.0, the Web-based meeting abstract submission system that now accommodates various word processor files. ECS has a commitment to provide 100% of the Meeting Abstracts for the 1998 Meetings online in advance of the meeting. The Society also has plans to premier *Letters Online* in 1998 (see "Publications" section).

In addition to the Meetings and Online Programs Manager, Brian E. Rounsavill, the meetings and information systems staff includes Stephen L. Priori, Meetings and Programs Assistant, and Jane Zhou, Information Systems Administrator.

## Financial

The fiscal year ending December 31, 1997, was an outstanding year for the Society. The year ended with a surplus of \$1,019,488 in the Unrestricted Funds and a surplus of \$22,354 in the Restricted Funds. The surplus in the Unrestricted Funds can be primarily attributed to greater-than-expected revenue from Meetings, the *Journal*, and Publications.

The 1997 Meetings were very successful. Both the Spring Meeting (Montreal, Canada) and the Fall Meeting (Paris, France) exceeded the budgeted attendance. The meetings also generated 40 proceedings volumes, resulting in greater revenues from the publications program.

The Society engaged the services of the independent accounting firm, KPMG Peat Marwick LLP, to conduct the 1997 annual audit. In the opinion of KPMG Peat Marwick LLP, the Society's financial statements present fairly, in all material respects, the financial position of The Electrochemical Society, Inc. as of December 31, 1997 and the related statements of activities for the years then ended in conformity with generally-accepted accounting principles.

In addition to the the Financial Manager, Carolyn Pylypiak, the Accounting staff includes Susan M. Liggett. ■

**TABLE III. Statements of Activities**

(Year ended December 31, 1997)

	Unrestricted Funds	Restricted Funds	Total Funds
Revenues:			
Publications	\$1,879,623	0	\$1,879,623
Membership	582,053	0	582,053
Society meetings and activities	1,284,007	0	1,284,007
Interest and dividend income	310,907	45,559	356,466
Contributions	27,071	100	27,171
Designated fund and grant income	49,461	0	49,461
Other revenues	126,398	0	126,398
<b>Total Revenues</b>	<b>4,259,520</b>	<b>45,659</b>	<b>4,305,179</b>
Net assets released from restrictions for awards	23,305	(23,305)	0
<b>Total Revenues and Other Support</b>	<b>4,282,825</b>	<b>22,354</b>	<b>4,305,179</b>
Expenses:			
Program Services:			
Publications	1,912,925	0	1,912,925
Membership	24,257	0	24,257
Society meetings and activities	848,483	0	848,483
Awards, fellowships, and grants	207,173	0	207,173
<b>Total Program Services</b>	<b>2,992,838</b>	<b>0</b>	<b>2,992,838</b>
Supporting Services:			
General and Administrative:	547,000	0	547,000
<b>Total Expenses</b>	<b>3,539,838</b>	<b>0</b>	<b>3,539,838</b>
Increase in net assets from operating activities	742,987	22,354	765,341
Nonoperating gain:			
Net increase in unrealized gain on investments	276,501	0	276,501
<b>Increase in net assets</b>	<b>1,019,488</b>	<b>22,354</b>	<b>1,041,842</b>
Net assets as of beginning of year as restated	5,194,083	619,561	5,813,644
Net assets as of end of year	\$6,213,571	641,915	6,855,486

## Notes to Financial Statements

### 1—Summary of Significant Accounting Policies

The financial statements include the accounts of The Electrochemical Society, Inc. (the Society), and its Divisions, Groups and Local Sections.

These financial statements, which are presented on the accrual basis of accounting, have been prepared to focus on the Society as a whole and to present balances and transactions according to the existence or absence of donor-imposed restrictions. Net assets and revenues, expenses, gains, and losses are classified based on the existence or absence of donor-imposed restrictions. Accordingly, net assets and changes therein are classified as follows: Unrestricted net assets—net assets not subject to donor-imposed stipulations; Temporarily restricted net assets—net assets subject to donor-imposed stipulations that will be met by actions of the Society and/or by the passage of time; Permanently restricted net assets—net assets subject to donor-imposed stipulations that they be maintained permanently by the Society. Generally, the donors permit the Society to use all or part of the income earned on related investments for general or specific purposes.

The Society qualifies as a tax-exempt organization described under Section 501(c)(3) of the Internal Revenue Code, and all of its income, except income generated through the advertising included in its publications, is exempt from Federal income taxes under Section 501(a) of the Code.

### 2—Investments

Investments are carried at fair value and are generally held until maturity.

Investment income and realized and unrealized net gains on investments of endowment funds (permanently restricted net assets) are reported as follows:

- as increases in temporarily restricted net assets if the terms of the gift impose restrictions on the use of the income and/or net gains;

- as increases in unrestricted net assets in all other cases.

Investments are stated at fair value and consist of the following as of December 31, 1997:

Short-term investments	\$1,243,881
Certificates of Deposit	1,916,062
Mutual Funds	610,239
U.S. Treasury Notes	1,904,859
U.S. Government Agency obligations	35,118
Corporate bonds	1,226,316
Corporate stocks	550,815
Accrued interest receivable	29,535
<b>Total</b>	<b>\$7,516,825</b>

### 3—Pension Plans

The Society has a contributory defined contribution pension plan covering substantially all employees under arrangements with Teachers Insurance and Annuity Association (TIAA) and the College Retirement Equities Fund (CREF), which plan provide for the purchase of annuities for employees. The cost of the plan for the year ended December 31, 1997 was \$47,725.

### 4—Restrictions and Limitations on Net Asset Balances

Permanently-restricted net assets consist of endowment gifts from donors with income to be used for specific awards or general purposes.

Temporarily-restricted net assets are to be used for Divisions', Groups', and Local Sections' awards.