

# 1998 ECS Annual Report

## *A Focus on Core Objectives*

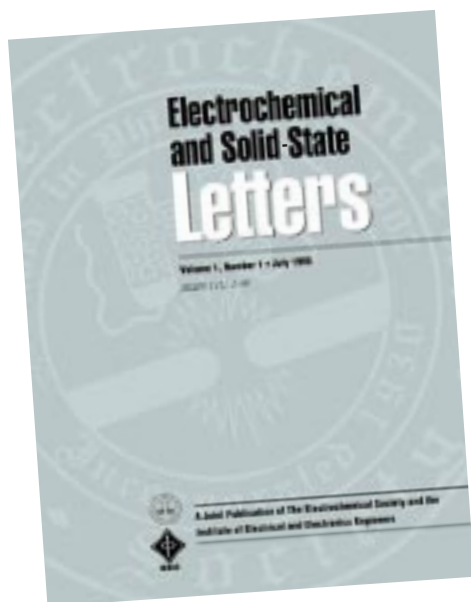


FIG. 1. The Society launched a new journal in July 1998—the first, and only, rapid-publication, electronic journal in electrochemical and solid-state science and technology.

In recent years, the Society's main focus of activity has been directed toward one of our core objectives—to effectively disseminate a broad range of high quality information in the fields of electrochemical and solid-state science and technology. By all measures, 1998 was a successful year for the Society, but our most significant accomplishment involved the strides made toward this core objective. Through major technological advances and the debut of a new technical journal, the Society has improved the speed, quality, and volume of scientific information disseminated at our meetings, and through our publications and member services.

The most exciting news in 1998 was the introduction of the Society's new online journal, *Electrochemical and Solid-State Letters*. Launched in July, this peer-reviewed journal was made available to all ECS members at no extra cost. *Letters* is the first and only journal of its kind and was designed as a rapid-publication, electronic journal with the same high editorial standards as the flagship *Journal of The Electrochemical Society*. It is one of the very few technical journals that publishes papers online as soon as they have been accepted and prepared for publication, with an average lag-time—from submission, to peer-review, to acceptance and publication—of just 8-10 weeks. To further ensure its success, ECS developed a co-publication agreement with the Electron Devices Society (EDS) of the IEEE. This beneficial arrangement increases the potential readership by an additional 11,000 individuals, bringing the total circulation to nearly 20,000.

Following the Society's largest meeting ever in Paris (Fall 1997), ECS held two great meetings in 1998. Although the Society did not get back to Europe this past year, meetings were held in two fabulous cities in North America: San Diego, California in May (1,621 attendees); and Boston, Massachusetts in November (1,831 attendees). The paper submissions for the meetings continues to grow (Fig. 3) as 1,175 abstracts were submitted



FIG. 2. The Society's Meetings, held in the spring and fall of each year, serve as major conferences for the discussion of interdisciplinary research from around the world.

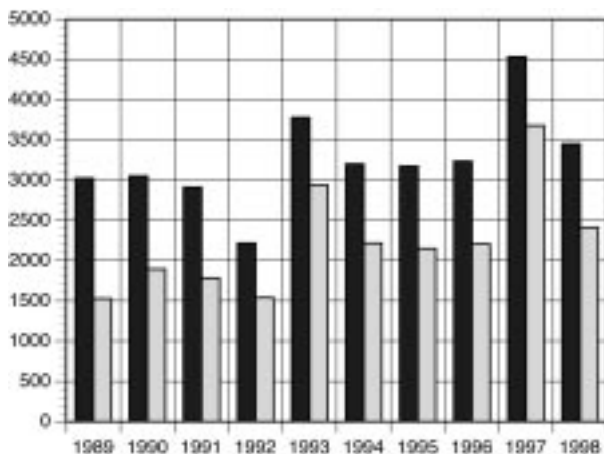


FIG. 3. ECS Meeting Paper submission and attendance. (■ Attendance and ■ Papers)

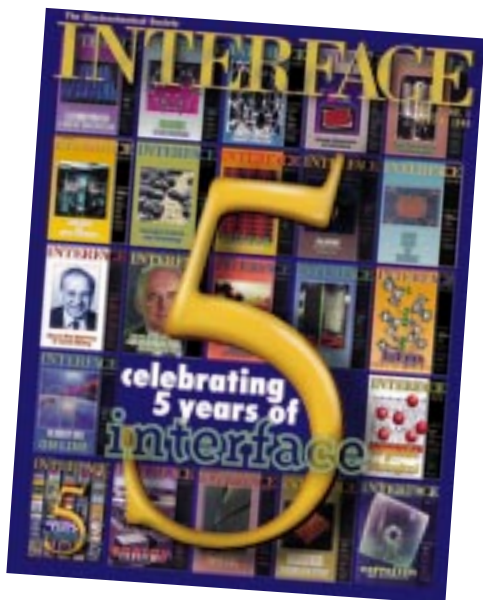


Fig. 4. Interface, the Society's members magazine, celebrated five years of publication. The anniversary edition cover showed the great breadth and interest of the ECS Divisions.

**Table I. ECS Membership Statistics**

(As of October 1, 1998)

**ECS Membership by Class**

Category	1994	1995	1996	1997	1998	1998/1997 % Change
Active	4855	4804	4952	5148	5327	3.5
Member Reps	87	81	93	83	76	-8.4
Life	60	59	58	58	59	1.7
Emeritus	182	201	203	220	222	0.9
Honorary	27	27	28	27	27	0.0
Subtotal Active in Good Standing	5,211	5,172	5,334	5,536	5,711	3.2
Delinquent	681	700	662	642	680	5.9
Total Active on Record	5,892	5,872	5,996	6,178	6,391	3.4
Students	758	799	865	887	860	-3.0
Delinquent	201	217	218	256	283	10.5
Total Students	959	1,016	1,083	1,143	1,143	0.0
<b>Total Individual Members</b>	<b>6,851</b>	<b>6,888</b>	<b>7,079</b>	<b>7,321</b>	<b>7,534</b>	<b>2.9</b>

**ECS Membership by Sections**

Section	1994	1995	1996	1997	1998	1998/1997 % Change
Canadian	226	188	194	248	219	-11.7
Chicago	190	179	210	183	172	-6.0
Cincinnati	52	45	40	46	66	43.5
Cleveland	112	108	111	112	114	1.8
Columbus	63	73	66	66	65	-1.5
Detroit	86	91	98	91	90	-1.1
European	589	750	813	891	1,076	20.8
Georgia	112	143	157	162	160	-1.2
Israel				30	42	40.0
Japan	428	455	514	575	602	4.7
Korea					145	
Metropolitan New York	404	413	401	381	356	-6.6
Midland	23	19	18	20	22	10.0
National Capital	188	197	194	192	215	12.0
New England	349	329	323	337	327	-3.0
North Texas	205	186	182	179	167	-6.7
Pacific Northwest	109	113	109	100	97	-3.0
Philadelphia	178	161	172	159	136	-14.5
Pittsburgh	84	96	90	86	86	0.0
San Francisco (ES&T)	185	148	138	153	160	4.6
San Francisco (SS&T)	417	381	362	347	337	-2.9
South Texas	171	184	192	209	188	-10.0
Southern California/Nevada	231	213	223	231	239	3.5
Southern Wisconsin	52	64	62	56	54	-3.6
Twin Cities	102	98	98	98	102	4.1
Non-Section	1,413	1,337	1,432	1,471	1,334	-9.3
Subtotal All classes (current)	5,969	5,971	6,199	6,423	6,571	2.3
Delinquents (Active and Student)	882	917	880	898	963	7.2
<b>Total</b>	<b>6,851</b>	<b>6,888</b>	<b>7,079</b>	<b>7,321</b>	<b>7,534</b>	<b>2.9</b>

for the San Diego Meeting, and 1,237 were submitted for the Boston Meeting. Electronic submission of abstracts has become the option of choice for the authors, as evidenced by an average electronic submission rate of 65% in 1998. With input from authors and symposium organizers, ECS has developed one of the best abstract submission and distribution systems available. The efficiency and accuracy of the system, referred to as ECSTASI (ECS Tool for Abstract Submission via Internet), has enabled us to extend the paper submission deadline to the point where no other sponsor of similar technical meetings maintains a later submission date and shorter publishing lag-time. In 1998, meeting abstracts were published on the ECS Web site three months prior to the meetings. In order to provide advance information to attendees and allow maximum exposure for the authors, free access to the electronic abstracts, to both members and non-members, was permitted up until the time of each meeting.

Other publications in the program also prospered in 1998. *The Journal of The Electrochemical Society* had an outstanding year, publishing 4,396 pages. *Letters* and the *Journal* combined received a total of 1,324 manuscript submissions, the highest number of manuscripts ever submitted. *Interface*, the Society's members magazine, celebrated five years of publication.

Books are another important part of the ECS publication program, with 27 Proceedings Volumes published for 1998. Added to the Society's Monograph Series in 1998 were two new books published by John Wiley & Sons: *Fundamentals of Electrochemical Deposition*, by M. Paunovic and M. Schlesinger; and *Semiconductor Wafer Bonding*, by Q.-Y. Tong and U. Gösele.

The Society's Web site continued to expand in 1998, and now includes a very active "Members Only" section with a number of valuable features. The online "Membership Directory" extends the resources for communicating with colleagues around the world. The "Discussion Forum" gives members the chance to post queries and feedback to other members on topics relating to ECS fields of interest. The "Career Services" section has been developed exclusively for ECS members as an employment aid. The "Positions Available Job Bank" allows prospective employers to post job openings. The "Résumé and Position Wanted" database enables ECS mem-

bers to post their résumés for prospective employers to browse; and finally, "Student Services" lists the numerous opportunities for students to become involved in the many activities of ECS.

The success of the Society programs and activities has had a positive impact on membership growth, with 1998 showing a total increase of 2.9% (Table I). Most notable is the growth in the non-North American Sections where membership has increased in the European, Israel, and Japan Sections; and a new section was established in Korea.

Of course, all these membership enhancements and new initiatives require the investment of considerable monetary and staffing resources, but the financial structure of the Society remains very strong without ANY increases in dues or fees in 1998. Table II presents a breakdown of the 1998 revenues and expenses which resulted in an increase in net assets from operating activities of \$583,375. Prudent management of expenses, along with outstanding meeting attendance and a high level of interest in our publications, continue to provide the necessary financial support for programs, and equally important, generate some surplus income for future development and initiatives. ■



Fig. 5. The Society's awards and recognition program encompasses over 40 Society and Divisional awards. By 1998, the Vittorio de Nora Award, one of the Society's highest honors, had been conferring its medals and cash prizes for 20 years. Pictured here in 1977 are (left to right): Paul Milner (Society Secretary, 1974-80); Jefferson Cole, a close friend of de Nora; Jack Horacek (president of Electrode Corporation); and Michael J. Pryor (Society President, 1976-77).

### 1998 Award Winners

Vittorio de Nora Award .....	Walther G. Grot
Henry B. Linford Award .....	Robert A. Rapp
Thomas D. Callinan Award .....	Rajendra Singh
Manuel M. Baizer Award.....	Sigeru Torii and Hans Schäfer
Max Bredig Award .....	Harald A. Øye
Energy Technology Division Research Award .....	H. Russell Kunz
Edward G. Acheson Award .....	Jerry M. Woodall
Technology Award of the Battery Division .....	George E. Blomgren
Research Award of the Electrodeposition Division.....	Madhav Datta
Sensor Division Outstanding Achievement Award.....	Ingemar Lundström
Fellows.....	Huk Y. Cheh, Donald E. Danly, Dennis H. Evans, Fumio Hine, Dennis C. Johnson, Zoltan Nagy, Katsumi Niki, Jun-ichi Nishzawa, Fan Ren, Antonio J. Ricco, David A. Shores, William H. Smyrl, and George Thompson

**TABLE II. Statement of Activities**

(Years ended December 31, 1998 and 1997)

	1998			1997		
	Unrestricted Funds	Restricted Funds	Total Funds	Unrestricted Funds	Restricted Funds	Total Funds
<b>Revenues:</b>						
Publications .....	\$1,936,221	0	1,936,221	\$1,879,623	0	\$1,879,623
Membership .....	597,570	0	597,570	582,053	0	582,053
Society meetings and activities .....	745,664	0	745,664	1,284,007	0	1,284,007
Interest and dividend income .....	426,719	39,148	465,867	310,907	45,559	356,466
Contributions .....	8,523	0	8,523	27,071	100	27,171
Designated fund and grant income .....	61,253	0	61,253	49,461	0	49,461
Other revenues .....	43,925	0	43,925	126,398	0	126,398
<b>Total Revenues .....</b>	<b>3,819,875</b>	<b>39,148</b>	<b>3,859,023</b>	<b>4,259,520</b>	<b>45,659</b>	<b>4,305,179</b>
Net assets released from restrictions for awards .....	40,174	(40,174)	0	23,305	(23,305)	0
<b>Total Revenues and Other Support .....</b>	<b>3,860,049</b>	<b>(1,026)</b>	<b>3,859,023</b>	<b>4,282,825</b>	<b>22,354</b>	<b>4,305,179</b>
<b>Expenses:</b>						
<b>Program Services:</b>						
Publications .....	1,747,701	0	1,747,701	1,912,925	0	1,912,925
Membership .....	103,155	0	103,155	24,257	0	24,257
Society meetings and activities .....	617,495	0	617,495	848,483	0	848,483
Awards, fellowships, and grants.....	244,595	0	244,595	207,173	0	207,173
<b>Total Program Services .....</b>	<b>2,712,946</b>	<b>0</b>	<b>2,712,946</b>	<b>2,992,838</b>	<b>0</b>	<b>2,992,838</b>
<b>Supporting Services:</b>						
General and Administrative: .....	562,702	0	562,702	547,000	0	547,000
<b>Total Expenses .....</b>	<b>3,275,648</b>	<b>0</b>	<b>3,275,648</b>	<b>3,539,838</b>	<b>0</b>	<b>3,539,838</b>
<b>Increase (decrease) in net assets from operating activities .....</b>	<b>584,401</b>	<b>(1,026)</b>	<b>583,375</b>	<b>742,987</b>	<b>22,354</b>	<b>765,341</b>
<b>Nonoperating gain:</b>						
Net increase in unrealized gain on investments.....	271,495	0	271,495	276,501	0	276,501
<b>Increase (decrease) in net assets .....</b>	<b>855,896</b>	<b>(1,026)</b>	<b>854,870</b>	<b>1,019,488</b>	<b>22,354</b>	<b>1,041,842</b>
Net assets as of beginning of year as restated .....	6,213,571	641,915	6,855,486	5,194,083	619,561	5,813,644
<b>Net assets as of end of year .....</b>	<b>\$7,069,467</b>	<b>640,889</b>	<b>7,710,356</b>	<b>\$6,213,571</b>	<b>641,915</b>	<b>6,855,486</b>

## Notes to Financial Statements

### 1—Summary of Significant Accounting Policies

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

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. 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.

### 2—Investments

Investments are carried at fair value and are generally held until maturity. Investments in real estate are carried at cost.

Investment income and realized and unrealized net gains on investments of 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, other than real estate, are stated at fair value, as determined by quoted market prices, and consist of the following as of December 31, 1998:

Short-term investments	\$896,410
Mutual Funds	1,238,031
Certificates of deposits	1,939,268
U.S. Treasury Notes	200,094
U.S. Government	
Agency obligations	2,927
Corporate bonds	1,147,217
Corporate stocks	710,343
Accrued interest receivable	26,953
Real Estate (ECS Holdings LLC)	1,437,733
<b>Total</b>	<b>\$7,598,976</b>

### 3—Independent Accounting Firm

The Society engaged the services of the independent accounting firm, KPMG LLP, to conduct the 1998 annual audit. In the opinion of KPMG LLP, the Society's financial statements present fairly, in all material respects, the financial position of The Electrochemical Society, Inc. as of December 31, 1998, and the related statements of activities for the years then ended in conformity with generally-accepted accounting principles. ■

**TABLE III. ECS Consolidated Balance Sheet**

(Years Ended December 31, 1998 and 1997)

<b>Assets</b>		
	<u>1998</u>	<u>1997</u>
<b>Current Assets:</b>		
Cash	\$194,060	\$113,674
Accounts Receivable	127,052	188,830
Inventories	5,955	27,523
Prepaid expenses, deposits, and other assets	120,182	118,093
<b>Investments (note 2):</b>		
Shared investment fund	4,218,080	5,778,818
Other investments	1,943,163	1,738,007
Investment in real estate	1,437,733	0
Land	381,377	30,769
Buildings	414,896	154,257
<b>Total Assets</b>	<b>\$8,842,498</b>	<b>\$8,149,971</b>
<b>Liabilities and Net Assets</b>		
	<u>1998</u>	<u>1997</u>
<b>Current Liabilities:</b>		
Accounts payable and accrued expenses	\$58,297	\$112,577
Deferred revenue	946,067	1,074,862
Security deposits	35,491	0
Deferred compensation	92,287	107,046
<b>Total Liabilities</b>	<b>1,132,142</b>	<b>1,294,485</b>
<b>Net Assets:</b>		
<b>Unrestricted:</b>		
General operating	950,998	735,067
Investment in land and buildings	796,273	185,026
Custodial	4,855,259	4,926,917
Designated	310,021	225,021
Designated Earnings	51,568	38,091
Local Sections	105,348	103,449
<b>Total Unrestricted</b>	<b>7,069,467</b>	<b>6,213,571</b>
Temporarily restricted	270,689	271,715
Permanently restricted	370,200	370,200
<b>Total Net Assets</b>	<b>7,710,356</b>	<b>6,855,486</b>
<b>Total Liabilities &amp; Net Assets</b>	<b>\$8,842,498</b>	<b>\$8,149,971</b>

## ECS Staff

<b>Roque J. Calvo</b>	<b>Executive Director</b>
<b>Barbara J. Baggott</b>	<b>ECS Affiliates Coordinator</b>
<b>Artie Ann Berry</b>	<b>Publications Assistant</b>
<b>Joan Bratsko</b>	<b>Membership Assistant</b>
<b>Elizabeth Brennfleck</b>	<b>Administrative Assistant</b>
<b>Anne Clementson</b>	<b>Publications Assistant</b>
<b>Paul Cooper</b>	<b>Publications Production Coordinator</b>
<b>Thérèse A. Cooper</b>	<b>Publications Assistant</b>
<b>Cynthia A. Freeman</b>	<b>Publications Assistant</b>
<b>Andrea L. Guenzel</b>	<b>Publications Clerk</b>
<b>Susan M. Liggett</b>	<b>Accounting Clerk</b>
<b>Patricia T. Lorynski</b>	<b>Publications Clerk</b>
<b>Carolyn R. Pylypiak</b>	<b>Director of Finance</b>
<b>Ellen S. Popkin</b>	<b>Publications Production Coordinator</b>
<b>Stephen L. Priori</b>	<b>Meetings and Programs Assistant</b>
<b>Brian E. Rounsavill</b>	<b>Director of Meetings, Exhibits, and Online Services</b>
<b>Ellen Tiano</b>	<b>Director of Membership and Administration</b>
<b>Mary E. Yess</b>	<b>Director of Publications</b>
<b>Jane Zhou</b>	<b>Information Systems Administrator</b>