

Finance Summary

IEEE AESS

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With assistance from Michael Cardinale, VP Finance

Summary

The Society is very solvent

we were budgeted to generate a surplus of \$294.6k in 2018. Actual was \$802.2k

BUT With IEEE investment loss of **\$198.8k**, our surplus was \$602.4k

We were budgeted to generate a surplus of \$184.8k in 2019,
Actual was **\$1,059.7k**

And IEEE investment returns were a remarkable **\$1,026.6k**,
giving AES a huge boost in our total surplus of **\$2,086.3k**
(which is our biggest increase ever)

This brought our “net worth” to \$6,350k at the start of 2020

Final 2020 results

- Audited 2020 results showed that AES generated a surplus of **\$1,228.3k**, vs a budget of \$556.9k, without investment returns.
- With investment returns plus deductions for GlobalSpec and pension plan contributions, our share is \$1,007.4k

Which brings the AES 2020 total surplus to \$2,235.7k

(our biggest increase ever)

2019 Highlights

Publications overperformed by \$471k (budget \$63.8k, actual \$534.8k)

- Non-member subscriptions T-AES \$485.9k (budget \$349.4k)
- Overlength Page Charges \$236.3k (budget \$204.4k)
- Open Access income \$28.7k (budget \$40.3k)
- Non-member subscriptions M-AES \$151.2k (budget \$109.9k)
- A number of Magazine fees were way less (such as Editor Fees)
- *NOTE: We still charge overlength page charges for open access articles*

Conferences overperformed by \$369.1k (budget \$672.3k, actual \$1,041.4k)

- Aerospace conference generated \$269.2k
- Radar generated \$180k
- AUTOTESTCON generated \$181.2k total (AES share is \$90.6k)
- METRO Aero generated \$9k
- ICNS generated \$29.7k
- FUSION generated 135k total (AES share \$13.5k)
- Conference publications Distribution: \$633k (budget: \$405.9k)

2020 Highlights: Publications

Publications overperformed by \$233.4k (budget \$330.5k, actual \$563.9k)

- Non-member subscriptions T-AES \$511.6k (budget \$384.2k)
- Overlength Page Charges \$211.7k (budget \$204.4k)
- Open Access income \$24.0k (budget \$40.9k)
- Non-member subscriptions M-AES \$152.2k (budget \$115.4k) –*part of IEEE AllTrans*
- eJournal Press fees were way higher than budgeted (editorial, indexing, admin, tools)
- *NOTE: We still charge overlength page charges for open access articles*

Board expenses were favorable by \$146k (budget 336.1k, actual 190.0k)

2020 Highlights: Conferencess

Conferences **over**performed by \$241.5k (budget \$836.7k, actual \$1,078.1k)

Aerospace conference generated \$245.7k

RadarConf20 generated \$16.7k

International Radar Conf generated \$134.7k

AUTOTESTCON was canceled; insurance will pay the budgeted surplus of \$178k (AES share 89k but this will appear in 2021 results – *NOTE this insurance **NOT available** in 2021*). The insurance claim is just about ready to file.

METRO Aero generated \$3.4k

DASC generated \$0.1k (AES share)

FUSION generated 3.8k total (AES share)

Conference publications Distribution: \$700kk (budget: \$496.3k)

A Note on Membership & Chapters

- AES membership also overperformed to budget, we were at 5,341 as of the end of 2020, down to 4,266 after February “terminator” run. Student memberships represent 15% of members
- This keeps us pretty much at the median of the Society size chart – 17 Societies are smaller than AES.
- On Chapters, many Sections (there are 344 total) would take back any unspent Chapter funds at the end of the year. That is no longer allowed under the new 2021 MGA Operations Manual.
 - I sponsored a change to the MGA Ops Manual (Sections 9.6.C.1 and 9.6.G) by adding the wording “such funds shall remain the designated assets of the Chapter” in the paragraphs noted that discuss Chapter finances, and how they earn them.
 - The 2021 manual was released in February:
 - <https://mga.ieee.org/board-committees/operations-manual>
 - We should notify all Chapters of this so that any funds they earn, they keep.

Additional Publications Savings for 2022

- 2020 Pubs VP Sabrina Greco asked me to explore moving our transactions and magazine abstract management from eJournal Press to IEEE Manuscript Central (ScholarOne, S1). Current Pubs VP Lance Kaplan will cover this but the summary is:
 - S1 portal opened March 1; all manuscripts to eJP through Feb 28 will continue to be adjudicated until published or denied
 - This may mean some small additional costs for 2021, perhaps very slight additional costs in 2022
 - Beyond that we will save money; eJP quoted costs are basically the same as IEEE (S1) but eJP continuously exceeds the budgeted costs (about 60k in 2020)
 - We will no longer need additional funded support from Conference Catalysts since their effort is included in the S1 costs

Summary 2020 Budget

	2018	2019	2020	2020
	Actuals	Budget	Target	Final
00380 TRANS ON AEROSP & ELECT SYS	631.6	614.5	587.8	648.8
00381 AEROSPACE & ELECT. SYS. MAGAZINE	139.5	122.8	114.4	132.8
00382 AEROSPACE & ELECT. FEES	85.8	80.8	78.3	78.3
00383 AEROSPACE & ELECT DIGITAL LIBRARY	0.0	0.0	0.0	0.0
01499 PERIODICAL RELATED - OTHER	0.0	0.2	0.2	0.2
01600 NON PERIODICAL	0.0	0.0	0.0	0.0
01700 MEETINGS/CONFERENCES	2,320.1	1,776.0	2,142.2	2,061.3
01701 CONFERENCE RELATED - OTHER	38.0	10.3	10.5	10.5
01900 COMMITTEE & OTHER	0.0	0.4	0.0	0.0
TOTAL REVENUE	3,215.0	2,605.0	2,933.4	2,931.9
00380 TRANS ON AEROSP & ELECT SYS	186.3	327.3	301.6	302.1
00381 AEROSPACE & ELECT. SYS. MAG.	306.5	344.0	149.7	150.2
00382 AEROSPACE & ELECT. FEES	0.1	0.0	0.0	0.0
00383 AEROSPACE & ELECT DIGITAL LIBRARY	0.0	5.9	6.0	6.4
01499 PERIODICAL RELATED - OTHER	(2.4)	(3.5)	(5.0)	(7.5)
01600 NON PERIODICAL	11.4	8.2	8.2	8.2
01700 MEETINGS/CONFERENCES	1,325.6	1,095.2	1,254.1	1,216.0
01701 CONFERENCE - RELATED	25.0	18.8	19.1	19.1
01800 ADMINISTRATION	303.4	348.0	345.7	344.4
01900 COMMITTEE & OTHER	256.8	276.3	271.9	336.1
TOTAL EXPENSE/RMBSVC (excl Projects)	2,412.7	2,420.2	2,351.3	2,375.0
TOTAL FROM OPERATIONS (excluding Projects)	802.2	184.7	564.1	556.9



AES 2021 Budget Summary

SUMMARY BY COST CENTER		2019	2020	2021	2021
		Actuals	Budget	Target	FirsPass
00380	TRANS ON AEROSP & ELECT SYS	775.6	648.8	503.3	503.3
00381	AEROSPACE & ELECT. SYS. MAGAZINE	167.2	132.8	107.3	107.3
00382	AEROSPACE & ELECT. FEES	85.5	78.3	70.5	70.5
00383	AEROSPACE & ELECT DIGITAL LIBRARY	0.0	0.0	0.0	0.0
01499	PERIODICAL RELATED - OTHER	1.7	0.2	0.2	0.2
01600	NON PERIODICAL	0.1	0.0	0.0	0.0
01700	MEETINGS/CONFERENCES	2,332.8	2,061.3	1,220.1	1,140.5
01701	CONFERENCE RELATED - OTHER	11.8	10.5	16.6	16.6
01900	COMMITTEE & OTHER	0.0	0.0	0.0	0.0
TOTAL REVENUE		3,374.9	2,932.0	1,918.1	1,838.5
00380	TRANS ON AEROSP & ELECT SYS	178.3	302.1	204.5	207.7
00381	AEROSPACE & ELECT. SYS. MAG.	236.1	150.2	45.0	45.4
00382	AEROSPACE & ELECT. FEES	0.2	0.0	0.2	0.2
00383	AEROSPACE & ELECT DIGITAL LIBRARY	5.4	6.4	6.2	6.2
01499	PERIODICAL RELATED - OTHER	(10.1)	(7.5)	(5.3)	(5.3)
01600	NON PERIODICAL	9.9	8.2	9.9	9.9
01700	MEETINGS/CONFERENCES	1,272.3	1,216.0	912.0	622.8
01701	CONFERENCE - RELATED	31.0	19.1	48.5	48.5
01800	ADMINISTRATION	309.2	344.4	328.4	328.4
01900	COMMITTEE & OTHER	282.8	336.1	214.9	302.1
TOTAL EXPENSE/RMBSVC (excl Projects)		2,315.2	2,375.1	1,764.3	1,565.9
TOTAL FROM OPERATIONS (excluding Projects)		1,059.7	556.9	153.8	272.6

2022 Budget Highlights

- *(The spreadsheets in NextGen are way more complex than the old system; to snapshot them and show here would make them unreadable)*
- Budgeted surplus is \$376.8k, which includes:
 - 2 in-person Board meetings
 - 1 in-person Officer's meeting
 - Moving Conference Catalysts admin support to full-time
 - And a sad farewell to Judy Scharmann after 15 years, and a warm welcome to Amanda Osborne!
 - Transactions Page Count of 4,500 pages
 - Conference surplus input from Michael Braasch
 - Plus all other standard expense items as in 2021: Scholarships, Chapter Support, reduced student membership dues, etc.

AES is quite solvent

We can still afford to spend money on worthwhile enhancements such as membership benefits, and the Society Review Committee recommends that we do this.

Here is what went into the 2021 budget:

- Reduction of student dues
- Increased Chapter support (in 2021 budget, by \$25k)
- Increased the undergraduate scholarship by \$5k (to 10k) AND added a second one
- Added \$5k to the graduate scholarship (to \$10k total) for 2021
- Added 500 pages to Transactions budget
- Additional awards
- Reductions in the 2021 budget were:
 - Travel; went virtual for officer's meeting and one Board meeting
 - Conference income and relevant expenses cut by average of 30% (IEEE recommendation)
- Even with the extra expenses and conference income cuts, we are still showing a healthy budgeted surplus of \$272.6k for 2021

Finally a bit of trivia (repeated from May)

- The IEEE was formed in 1963 by the merger of the American Institute of Electrical Engineers (AIEE, formed 1884) and the Institute of Radio Engineers (IRE, formed 1912).
- The forerunner of AES was Group 10 of the IRE, then known as the Space Electronics and Telemetry Group.
 - It was apparently combined with Group 11, the Aerospace & Navigation Group, when IEEE was formed, to be IEEE Society No 10, the Aerospace & Electronic Systems Society)

Interesting information on AES history

- This was found in the IEEE history files:
 - “A few years after Estrin left the IEEE Board, [Judith Resnik](#), the astronaut, died in the space shuttle Challenger explosion. “I had always felt that IEEE should have some woman's name on an award. I thought a Judith Resnik Award would be an honor to her and to IEEE.” With the support of Bruno Weinschel, the 1986 IEEE President, she proposed the award. In 1986, the IEEE established the [IEEE Judith A. Resnik Award](#) presented to an individual or team, with preference given to an individual for outstanding contributions to space engineering within the fields of interest of the IEEE (discontinued in 2012).”
- I have contacted the History Committee to let them know that AES still has a Judith Resnick Award.

