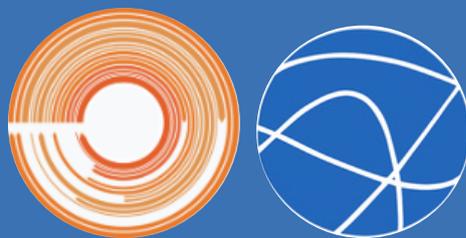


ISIE
2025
SINGAPORE

12th International Conference on
Industrial Ecology

1 - 4 July 2025

**ISIE ANNUAL
REPORT
2025**



▲ **International Society**
▼ **for Industrial Ecology**

OUR MISSION

The International Society for Industrial Ecology promotes industrial ecology as a way of finding innovative solutions to complicated environmental problems, and facilitates communication among scientists, engineers, policymakers, managers and advocates who are interested in better integrating environmental concerns with economic activities. The mission of the ISIE is to promote the use of industrial ecology in research, education, policy, community development, and industrial practices.

▲ International Society

▼ for Industrial Ecology

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PRESIDENT'S REPORT



**ARNOLD
TUKKER**
PRESIDENT

We almost missed it, but ISIE has reached the ripe age of 25! A meeting in New York with key IE scientists from all over the world in 2000 led to the launch of the Society in early 2001. ISIE was initially managed as a project at Yale University with significant support of the group led by our inaugural president, Prof. Tom Graedel. The launch of our society built upon the great work of some founders of our field in the late 1980s and 1990s, and the earlier launch of the Journal of Industrial Ecology (JIE) in 1997. Around 2018, the leadership of the society decided to establish ISIE as an own legal entity under Dutch law, and also to have the journal formally hosted by ISIE. This gives our field and society now a solid foundation, in times where international relations have become more tense, while transnational academic collaboration is probably more relevant than ever if we want to solve the major global challenges the world faces.

I think the society matured well. We reached our highest membership level ever, being a scientific home now for 1200 people. Our major biennial conferences now routinely attract 700 people or more – the Singapore conference in 2025 being again testimony of this.

We have strong communities in the US, Canada, Europe, China, Australia and Japan and are expanding to other continents and regions, as reflected by a special session in our 2025 conference and upcoming special JIE issue on IE in the Global South. The Annual IE day in November has developed into a mature and well visited virtual platform for research exchange. In the even years when we do not have our main conference, the Gordon Research Conference and major section led conferences such as the one on Socio-Economic Metabolism fill the gap brilliantly. We have very active sections, and a vibrant PhD community. The JIE moved from Wiley to Springer-Nature, obtaining a contract that bears many promises for the future. While this inevitably led to some hick-ups during the transfer period, our flagship journal now is based at a publishing house that has a very high reputation, and where it is possible to position JIE in a suite of other high quality journals in adjacent environmental science fields. In 2025 no less than 168 papers were published, a number that without doubt will rise. All these achievements were only possible thanks to the mainly voluntary work of enthusiastic members, taking responsibility for conferences, leading sections, participating in board and committees, and managing our journal. We owe a big thank you to them all.

During our 2026 annual meeting we will present a strategic plan, that has been developed in discussion with the Executive team and Board during the last year. It wants to give simple and concise guidance to the many bottom-up activities that makes our community thrive. In short, we aim to:

- 1) make education and outreach materials and programs even more accessible than we already do;
- 2) showing our societal/policy relevance ('policy think tank function'), e.g. by connecting senior and other members to relevant policy making processes
- 3) even more than we already do, pushing our field's scientific boundaries, particularly via our sections and the JIE
- 4) with as a result, expanding the number of IE scientists/ISIE members. Though we do very well, we are in numbers similar to the amount of economists in the statistical office in a medium-sized country. Our work is equally if not more important than that of economists, so envisaging a future where we have thousands of IE specialists is a reasonable goal to strive for!

And, a thriving society has to be supported by

- 5) a financially healthy and sound organisation structure
- 6) strategic partnerships.

We will work towards these objectives in the next years. I would like to close repeating the word of our immediate past president, Ming Xu, who served our society so well. I look forward to seeing the next chapter of ISIE unfold and to remaining an active member of this incredible community. Thank you for your support, collaboration, and commitment to advancing industrial ecology. Together, we are shaping a more sustainable and resilient world.

MEMBERSHIP REPORT



**YUAN
YAO**
SECRETARY

The society membership at the beginning of 2026 was 1186, the highest since 2022 (see Table 1).

Table 1: Comparison of ISIE membership at the beginning of years 2022-2026

	2022	2023	2024	2025	2026
Student	303	309	505	411	642
Regular membership	357	290	359	303	409
Young Professional	71	65	108	76	123
Courtesy membership	8	13	18	12	12
Total	739	677	990	802	1186

Where are Our Members?

Our members come from more than 60 countries worldwide (Figure 1). Membership has grown significantly across all regions (Table 2). Compared to 2024, membership in Africa has risen by 110%, in Australia and New Zealand by 67%, and in Asia by 56%. North America and Europe have seen increases of 41% and 43%, respectively. In Latin America and the Caribbean, membership has also grown by 20%.

The distribution of members across regions remains stable: Europe accounts for the largest portion (39%), followed by Asia (35%), North America (20%), Australia and New Zealand (3%), Africa (2%), and Latin America and the Caribbean (1%). At the country level, China has the highest membership, followed by the United States and the Netherlands. The society is currently making efforts to expand membership and enhance engagement in less active areas, particularly in Africa.

Table 2: Membership across regions in 2024 and 2025

Region	Members 2024	Members 2025	Growth %
Asia	269	419	56%
North America	165	232	41%
Europe	322	461	43%
Australia and New Zealand	21	35	67%
Latin America and the Caribbean	15	18	20%
Africa	10	21	110%
Total	802	1186	48%



Figure 1: ISIE membership map across world regions

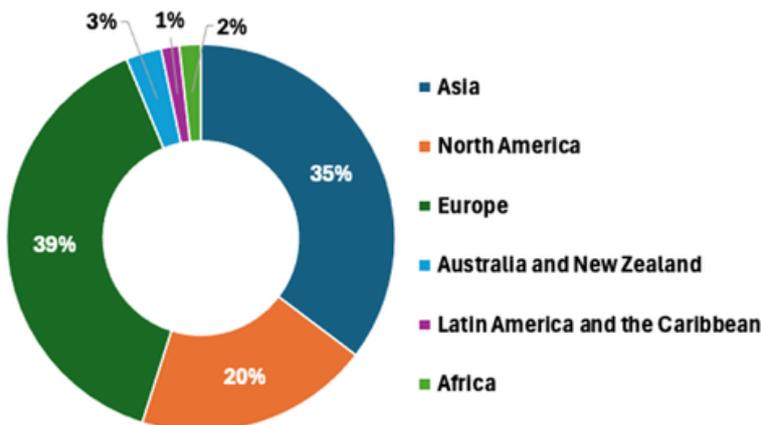


Figure 2: ISIE membership by percentage across global regions in January 2026

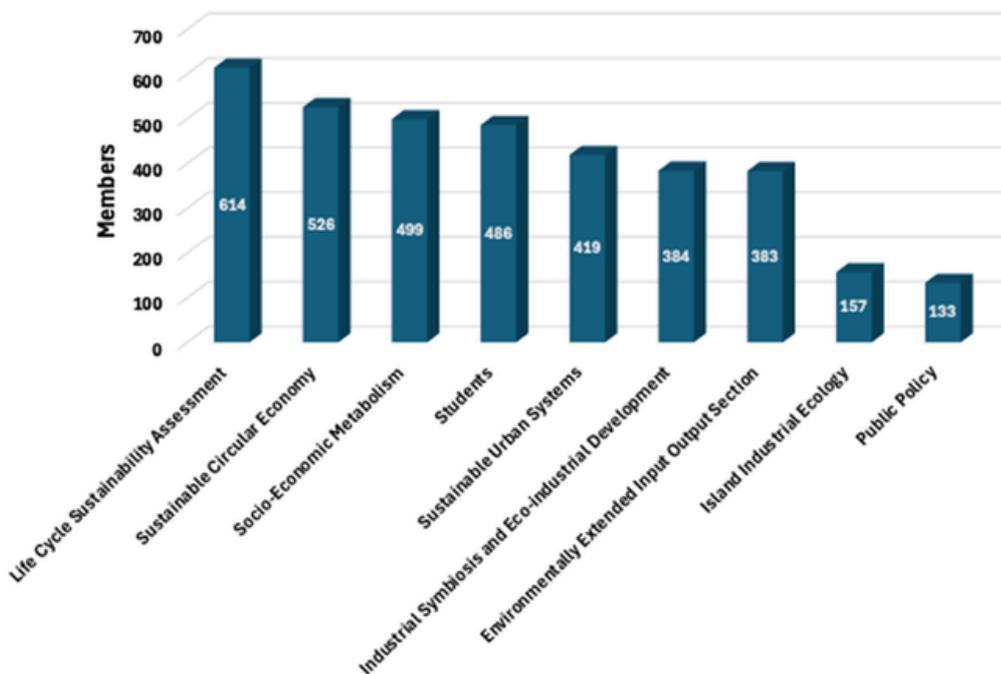


Figure 3 Membership across the sections in January 2026

Section Membership

The growth in ISIE membership during early 2026 was reflected across all Sections (see Figure 3). Membership in the Life Cycle Sustainability Assessment section rose from 430 to 614; the Sustainable Circular Economy section from 349 to 526; the Socio-Economic Metabolism section from 378 to 499; the Student section from 325 to 486; the Sustainable Urban Systems section from 305 to 419; the Industrial Symbiosis and Eco-Industrial Development section from 271 to 384; the Environmentally Extended Input-Output section from 268 to 383; and the Island Industrial Ecology section from 111 to 157. The newly established Public Policy section has 133 members. The aggregate section membership totals 3,601, indicating that, on average, each ISIE member participates in three sections. This reflects the diverse range of interests and expertise represented by members of the society.

ISIE AND JIE FINANCIAL REPORT



**ALESSIO
MIATTO**
TREASURER

Welcome to the section addressing the finances of the International Society for Industrial Ecology (ISIE) and the Journal of Industrial Ecology (JIE). For ease of reading, all monetary values are rounded to the nearest whole unit. From this year, we shifted to a cash-flow balance.

The ISIE budget encompasses both the Society's operations and the operations of the JIE. ISIE is based in the Netherlands and budgets in euros (EUR), whereas JIE has historically budgeted in US dollars (USD). From 2026 onward, JIE will also budget in EUR due to the transition from Wiley to Springer Nature.

The year 2025 began with a strong financial position (€165,315 for ISIE and \$87,771 for JIE). As of January 1, 2026, both entities remain in a solid financial position, holding cash reserves equivalent to more than one year of operating expenses, providing resilience in the event of an unexpected downturn. However, as intended by design and planning decisions, income has decreased compared with two years ago, while expenses have increased. Further details are provided below.

Income

ISIE generally has four primary sources of revenue: (1) membership dues, (2) donations, (3) interest income, and (4) net proceeds from biennial conferences.

ISIE offers two-year memberships only. Membership income tends to be higher in years when a biennial conference takes place, as many members renew their membership in connection with conference participation. The year 2025 was a conference year. Total membership revenue in 2025 was €39,751 (before credit card fees), slightly below the budgeted amount of €40,000.

In addition to routine donations added voluntarily by members during membership payment, Total donations amounted to €1,712, largely due to the generous offer from Tom Graedel to match all donations collected in 2024. However, donations were substantially below the budgeted €3,000.

Conference income was €29,975, in line with the budgeted €30,000. The minor discrepancy is attributable to banking fees on the transaction. Finally, interest income totaled €1,000 compared with a budgeted €2,000. This difference reflects a significant reduction in interest rates applied to the EUR accounts held with Wise, ISIE's banking provider.

Staff Expenses

There are two primary paid positions within ISIE: the Administrative and Outreach Manager (who manages the secretariat) and the Executive Director. In 2025, compensation for these roles represented approximately 60% of total ISIE expenditures.

Contracts for both positions have been extended through 2026, which is reflected in the 2026 budget forecast. The Society is grateful for the continued dedicated service of Irena and Ned. In addition, the Secretary and Treasurer each receive an annual remuneration of €2,500. The forecast has been adjusted to € 3,000, as this remuneration was never adjusted for inflation since its introduction in 2018.

General Operating Expenses

Excluding staff costs, operating expenses are intentionally lean. The 2025 budget for general expenses was €3,259. Actual general expenses in 2025 totaled €2,627.

Credit card processing fees were the largest category of general expenses, totaling approximately €1,350. These costs reflect the necessity of processing online membership payments through Stripe, given the globally distributed membership base.

Staff Travel

ISIE supported travel for the Executive Director and the Administrative and Outreach Manager to attend the ISIE conference in Singapore. Total staff travel expenses were €4,333, slightly below the budgeted €5,000.

Scholarships and Awards

In 2025, ISIE spent €12,060 to support scholarships for non-US young scholars to attend the ISIE conference in Singapore. US young scholars were supported through a \$50,000 grant from the US National Science Foundation, which is not part of the ISIE balance sheet.

Aside from staff remuneration, student support remains the largest component of ISIE's expenditure. The 2026 budget includes increased scholarship funding totaling €20,000: €10,000 to support attendance at the Gordon Research Conference (GRC) in the United States, and an additional contingency allocation of €10,000 intended to support participation in the 2026 ISIE conference in Latin America.

Projects and Initiatives

ISIE disbursed €5,793 to support member-led initiatives. One supported initiative was the documentary *Metabolism of Islands*, which is now publicly available on YouTube. In 2026, we are already committed to several initiatives. ISIE will fund GBP 4,500 for UCL Witz collaboration; EUR 5,000 for a book donation trial over two years; EUR 2,500 for the sustainability literacy platform; EUR 1,500 for an Illustrated book from ISIE 2025; and EUR 5,000 for an IE method crash course.

Miscellaneous

To simplify bookkeeping and improve transparency across restricted and earmarked funds, the 2025 ISIE financial records were reorganized into several subaccounts. This structure allows clearer tracking of funds dedicated to specific purposes, such as the Laudise Medal and the Socio-Economic Metabolism Section.

Negative transactions in this category represent transfers from the main ISIE account to these internal subaccounts. These transfers do not represent expenditures and remain part of the overall ISIE financial position.

Journal of Industrial Ecology

JIE operated with a strong surplus in 2025, with expenses of \$66,263 against income of \$130,271.

The 2026 budget submitted by the JIE covers editorial services, promotional activities, and travel planned in connection with the GRC conference in Maine. From 2026 onward, due to the publisher transition from Wiley to Springer Nature, JIE operations will be conducted in EUR.

Expected 2026 income is €125,420, exceeding forecast expenditures by approximately €19,567. This projected surplus provides a buffer against unexpected expenses that may arise during the transition period.

Reserves

ISIE reserves ended 2025 at €171,909, compared with €165,315 at the start of the year, rISIE reserves ended 2025 at €171,909, compared with €165,315 at the start of the year, representing a net increase of €6,594. While reserves increased, the gain was lower than in typical cycles because ISIE revenue is concentrated in biennial conference years.

To limit the cost burden for the Singapore conference, the Society requested only €30,000 in conference proceeds. For reference, in 2023 ISIE received €60,000 from the conference organizers in Leiden.

Given the Society's strategic intention to direct funds toward student and member support, 2026 reserves are forecast to decline substantially. If the forecast is accurate, ISIE will close 2026 with a net loss of €68,268. While such a loss would not be sustainable over multiple years, it is manageable for a single year given current reserves and in line with the society's intention to lower its cash reserves to promote members' activities.

Looking forward

Looking ahead to 2027 and beyond, I believe it is necessary to plan for higher net proceeds from future biennial conferences and to increase membership fees, as membership rates have not been revised since 2018 despite the large global inflation we experienced in recent years.

Our membership base averages more than 1,000 members over the course of the year. More precisely, membership typically exceeds 1,000 toward the end of the year, before dropping to around 850 in February when non-renewing members are removed from the register. At the same time, we adjust all our contracts annually for inflation, and the average cost of a full scholarship to attend the ISIE conference is now at a historical high because of the inflation experienced over the past few years.

Even if net revenue from the 2029 conference increases from €40,000 to €65,000, representing an additional €25,000, and even if funding for members' proposals is reduced from €10,000 to €6,000 per year, while student scholarships and conference awards remain fixed at €12,100 and are not adjusted for inflation, we still forecast a shortfall of €3,120 across 2028 and 2029.

For these reasons, the ISIE Board and I have developed the following proposal to adjust membership fees.

Table 1 - New membership fees proposal

New proposed fees		
Membership	Price	% change
High, regular	€ 175	17%
High, young professional	€ 140	17%
High, retiree	€ 105	New category
High, student	€ 20	33%
Upper-mid, regular	€ 140	17%
Upper-mid, young professional	€ 105	17%
Upper-mid, retiree	€ 85	New category
Upper-mid, student	€ 13	30%
Lower-mid, regular	€ 90	20%
Lower-mid, young professional	€ 70	17%
Lower-mid, retiree	€ 55	New category
Lower-mid, student	€ 7	40%
Low, regular	€ 65	18%
Low, young professional	€ 45	13%
Low, retiree	€ 40	New category
Low, student	€ 2	Introduced to avoid abuse of free tier

Table 1 presents the proposed new fees and the percentage increase relative to the current rates. Since 2018, prices in the Netherlands have increased by 29 % according to Statistics Netherlands

(https://opendata.cbs.nl/portal.html?_la=en&_catalog=CBS&tableId=70936eng&_me=1157). Most membership categories are therefore proposed to increase by 17%, which remains below cumulative inflation over that period. The largest percentage increases apply to student categories, at 30% to 40%. Although these increases may appear substantial in percentage terms, student fees start from a very low base, so even an increase of €1 produces a large percentage change.

We are also proposing the introduction of a new retiree membership tier. This category is intended for members who are over 60 years of age and working at less than 50% full-time equivalent. The purpose of this new tier is to recognize that many senior members remain active in the Society and continue to make valuable contributions, while often no longer having access to the same level of professional income or institutional support as full-time employed members. Introducing a retiree tier allows us to retain the engagement and experience of these long-standing members while offering a fee structure that better reflects their stage of career and level of employment.

This new tier is meant to ensure that membership remains fair and inclusive across career stages.

Additionally, we propose introducing a nominal fee of €2 for the low-income student tier, which was previously free. Although the free tier was introduced with good intentions, in practice it created two challenges. First, it attracted some applications that did not appear to be genuine, simply because there was no cost to joining. Second, it encouraged some legitimate registrations from individuals whose main motivation was the absence of a fee rather than an active interest in the Society. As a result, a considerable proportion of these members remained inactive after joining. This creates practical difficulties for the Society's governance. For example, member proposals require the support of 10 % of the full membership to be approved, and a large number of inactive members effectively raises that threshold in practice. The proposed €2 fee is intended to ensure that those who join are sufficiently motivated to participate, while remaining low enough not to create a meaningful barrier for students from low-income countries.

These proposed new fees have been unanimously supported by the ISIE Board. Page 13

Balance tables

We report here the summary balances for all ISIE accounts (including JIE's account).

Table 2 – ISIE's Wise account (main account)

ISIE Wise account		2025	2025	2026	2027
	Proposed	Actual		Proposed	Proposed
	EUR	EUR		EUR	EUR
Total income	75,000.00	74,543.43		29,900.00	86,400.00
Total incoming transfers	0.00	2,054.83		0.00	0.00
Total income and incoming transfers	75,000.00	76,598.26		29,900.00	86,400.00
Total expenses	-79,139.27	-64,375.42		-94,202.40	-76,020.00
Total outgoing transfers	0.00	-69,100.59		-120.00	-150.00
Total expenses and outgoing transfers	-79,139.27	-133,476.01		-94,322.40	-76,170.00
Net income	-4,139.27	10,168.01		-64,302.40	10,380.00
Net transfers		-67,045.76		-120.00	-150.00
Net balance (net income and net transfers)		-56,877.75		-64,422.40	10,230.00
Start-of-year reserves	148,787.14	165,315.17		108,437.42	44,135.02
End-of-year reserves	144,647.87	108,437.42		44,135.02	54,515.02

Table 3 – JIE's Wise account

JIE Wise account		2025	2025	2026	2027
	Proposed	Actual		Proposed	Proposed
	USD	USD		EUR	EUR
Total income	107,745.00	122,506.22		158,633.33	125,150.00
Total incoming transfers	0.00	7,764.70		120.00	150.00
Total income and incoming transfers	107,745.00	130,270.92		158,753.33	125,300.00
Total expenses	-98,251.00	-64,331.88		-141,853.33	-124,530.00
Total outgoing transfers	0.00	-1,931.23		0.00	0.00
Total expenses and outgoing transfers	-98,251.00	-66,263.11		-141,853.33	-124,530.00
Net income	9,494.00	58,174.34		16,780.00	620.00
Net transfers	0.00	5,833.47		120.00	150.00
Net balance (net income and net transfers)	9,494.00	64,007.81		16,900.00	770.00
Start-of-year reserves	79,872.12	87,771.20		129,204.41	146,104.41
End-of-year reserves	89,366.12	151,779.01		146,104.41	146,874.41

Table 4 – Detailed historical and prospective balances

Detailed account balances	1-Jan-25	1-Jan-26	1-Jan-27	1-Jan-28
Wise (ISIE general)	€ 165,315.17	€ 108,437.42	€ 44,135.02	€ 54,515.02
Wise (Laudise medal)	€ 0.00	€ 10,412.72	€ 10,466.72	€ 9,770.72
Wise (SEM funds)	€ 0.00	€ 879.73	€ 383.33	€ 385.13
Wise (Symbiosis funds)	€ 0.00	€ 3,307.36	€ 0.00	€ 0.00
Wise (JIE) in USD/EUR	\$ 89,366.12	\$ 151,779.01	€ 146,104.41	€ 146,874.41
ABN Amro	€ 0.00	€ 48,871.69	€ 48,655.69	€ 48,439.69
TOTAL (JIE converted to EUR)	€ 251,430.44	€ 301,113.34	€ 249,745.17	€ 259,984.97

FINANCE COMMITTEE REPORT



**MATTHEW
ECKELMAN**
FINANCE
COMMITTEE



**JIASHUO
LI**
FINANCE
COMMITTEE

Report of the Evaluation of ISIE and JIE Finances

The 2025 financial report is clearly structured and transparently presented, with details for each cost category. The shift to a cash-flow-based balance improves readability and interpretability for members. Now that JIE has moved to SpringerNature, the switch to all-EUR accounting greatly simplifies the balance sheet and makes it easier to interpret. The overall financial position of ISIE and JIE is strong and has remained resilient over several tumultuous years. Maintaining cash reserves equivalent to more than one year of operating expenses provides an appropriate financial buffer against uncertainty. The reported decline in income and increase in expenditures relative to two years ago are clearly framed as the outcome of deliberate planning decisions rather than indicators of financial stress.

The finances of the International Society for Industrial Ecology

1. ISIE's income sources remain diversified and function largely as expected. Membership and conference revenues closely aligned with budget projections, confirming the reliability of the revenue base, particularly in conference years.

Lower-than-budgeted donations and interest income are understood to reflect external factors, including donor variability and changing interest rate environments, rather than weaknesses in financial management. The move to increase the request from the ISIE conference organizers up to EUR 40,000 makes sense given a potentially more accessible location for the majority of the membership. It was also encouraging to see a line item for conference merchandise from the biennial conferences – this could also be useful advertising!

2. The staff expenditures are proportionate and well justified, reflecting the central role of professional administration and leadership in supporting ISIE's operations. The adjustment of remuneration for the Secretary and Treasurer to account for inflation is viewed as appropriate and overdue, and reflects responsible and fair governance practices.

3. Non-staff operating expenses remain lean and well controlled, with actual expenditures below budget in 2025. Credit card processing fees constitute a necessary cost associated with maintaining a globally accessible membership system and are transparently reported.

Staff travel expenditures seem to be reasonable and aligned with organizational needs, particularly in supporting participation in the ISIE conference. Actual travel costs remaining below budget further indicate prudent cost management.

4. About the scholarships and awards, the Board strongly supports the continued prioritization of student and early-career support, which remains the largest non-staff expenditure category. Scholarship spending in 2025 is consistent with ISIE's commitment to inclusivity and global participation. The planned increase in scholarship funding in 2026 reflects a strategic choice to further invest in capacity building and member engagement, and is viewed positively, provided it remains aligned with the Society's longer-term financial balance. The 2026 budget includes €10,000 for ISIE Latin America, which is quite generous. Other regional meetings have not had comparable support in the past and future budgets are such that it seems unlikely that this level of support could be extended to other meetings and/or future years, so the ISIE may wish to moderate that amount to help set consistent long-term expectations. The 2027 projection decreases the scholarship availability down to €10,000 total, which presumably will be concentrated on supporting the next ISIE biennial conference.

5. The relatively large amount budgeted for 2026 member initiatives (€19,662) includes several initiatives that were passed in prior years but have not yet invoiced. It may be helpful to determine from past recipients of these member proposal funds whether they still plan to use the entire allotted amount so that these funds may be re-allocated.

6. The reorganization of financial records into subaccounts is regarded as a positive step toward improved transparency and accountability. The clarification that transfers to subaccounts do not represent expenditures but internal allocations is particularly helpful for accurate interpretation of the financial statements.

The finances of the Journal of Industrial Ecology

JIE's strong surplus in 2025 and positive outlook for 2026 significantly strengthen the overall financial position of the Society. It is very encouraging that the switch to Springer Nature has both increased revenues and decreased expenditures – congratulations on this decision! This surplus provides an important buffer during the publisher transition and currency conversion period, reducing financial risk. The forward-looking explanation of JIE's budget and operational changes is clear and reassuring.

The forecasted decline in reserves in 2026 reflects a deliberate and mission-driven strategy to deploy accumulated funds in support of members and students. While such a drawdown would not be sustainable over multiple consecutive years, it is considered manageable in the short term given current reserve levels. Looking ahead, higher net conference proceeds and periodic inflation adjustments to membership fees may be necessary to maintain long-term financial sustainability. Compared to other international societies, membership dues for the ISIE are relatively low. The 2-year, high-income membership translates to EUR 75 per year, compared to SETAC (€160/year), AIChE (\$200/year), ASCE (\$135-270/year), etc. Therefore, the plan to potentially increase membership dues seems reasonable. In addition to increasing revenues, the other option is to decrease costs. However, it is difficult to see major opportunities for cost-cutting as the society already operates quite lean and the support of scholarships and member proposals serves to fulfil the primary mission of the society.

Overall, we are confident that the 2025 ISIE and JIE financial report reflects sound financial management, transparent governance, and clear alignment between financial decisions and strategic priorities. The report provides a solid basis for accountability to members and for informed discussion about the Society's future financial direction.

DEVELOPMENT BOARD REPORT



THOMAS E. GRAEDEL
CHAIR

As is well known, many potential ISIE-related research initiatives require some startup funding to begin addressing and (one hopes) realizing their goals. This situation stimulated the formation of the ISIE Development Board (hereafter DB) in 2020 with the intent of encouraging and receiving significant financial donations from ISIE members. It was realized that if this initiative were to be successful it would require active efforts to promote the concept of regular donations by a significant percentage of ISIE members, and that members were more likely to donate to specific projects in which they were interested rather than to ISIE as an organization.

An early goal of the DB was to publicize the existence of the DB and to clearly state its organization and purposes, together with summarizing some initial projects that ISIE members might find of interest, such as:

Singapore ISIE Conference Travel Support
The goal of this project was to raise funds to support attendance by students and others at the conference

Textbook Gift Program
The goal of this project was to raise funds to provide industrial ecology textbook to students and faculty in developing countries

Pre-College Industrial Ecology Education
The goal of this project was to raise funds to generate teaching materials and instructor guides for the purpose of introducing industrial ecology to students not yet in college

An early realization by the committee was that the goals mentioned above (among others) needed to be advertised in detail to ISIE members, especially at the time memberships are renewed. Additionally, a repository for donations needed to be established. This task was taken on by Gjal Huppes of Leiden University. After considerable effort he was able to set up an account at ABN AMRO, an international bank, and a deposit has been made to that account so as to activate it. As a consequence, contributions to ISIE from citizens of many European countries are able to make tax-deductible contributions to the ISIE Foundation for the benefit of ISIE activities. This opportunity needs to be communicated in detail to ISIE members, an activity not yet accomplished.

Notwithstanding the progress outlined above, donations to ISIE in the past three years have been quite modest – not nearly enough to permit launching any of the projects described above.

The Development Board has thus concluded that ISIE member funding of Development Board projects is unlikely to be sufficient to launch any of the beneficial projects that have been proposed. The Board nonetheless feels that a good start has been made in thinking about how to stimulate the ISIE membership to provide funds to ISIE programs.

For the present the Board nonetheless feels that the lack of a history of member monetary donations suggests that the effort involved in maintaining a Development Board cannot be justified by the results generated therefrom, and we recommend that attempting to raise funds for ISIE need to be centered on wide advertised specific monetary needs for specific program initiatives.

Accordingly, we recommend that the Development Board be temporarily archived until there are more promising signs of wider ISIE support of initiatives that require funding from members or other donors.

T. Graedel, Chair, ISIE Development Board

AWARDS COMMITTEE REPORT



**ESTER VAN
DER VOET**

FORMER AWARD
RECIPIENT



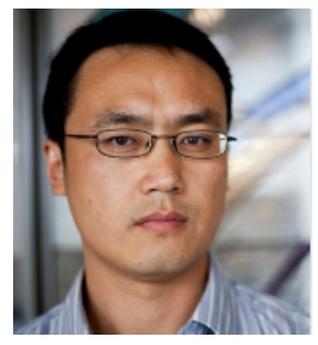
**CHRISTOPH
HELBIG**

FORMER AWARD
RECIPIENT



**ARNOLD
TUKKER**

PRESIDENT



**MING
XU**

IMMEDIATE
PAST-PRESIDENT

The Awards Committee is responsible for soliciting nominations for the Society Prize and the Laudise Medal and for selecting the awardees from the nominees. The Society Prize is awarded for outstanding contributions to the field of industrial ecology and represents the ISIE's highest recognition of professional achievement. The Laudise Medal is awarded for outstanding achievements in industrial ecology by a researcher under the age of 36.

In 2025, the committee conducted the award selection process for the Society Prize and the Laudise Medal. After the call for nominations was issued, the committee reviewed the submitted nominations and evaluated the candidates with respect to the published criteria. The committee's deliberations resulted in the selection of three awardees for 2025.

The recipients of the **2025 Society Prize** were **Heinz Schandl** and **Gregory Keoleian**. The recipient of the **2025 Laudise Medal** was **Zhi Cao**. These awardees are recognized on the ISIE awards page as the Society's 2025 honorees.

The awards were presented in conjunction with the **12th International Conference on Industrial Ecology (ISIE2025) in Singapore**, held from **1 to 4 July 2025**.

The committee sincerely thanks all nominators and all those who supported the process. It also extends its warm congratulations to **Heinz Schandl, Gregory Keoleian, and Zhi Cao** for their well-deserved recognition as ISIE's 2025 awardees.

NOMINATING COMMITTEE REPORT



**JONATHAN
KRONES**
MEMBER



**PETER
BERRILL**
MEMBER



**SINA
LEIPOLD**
MEMBER



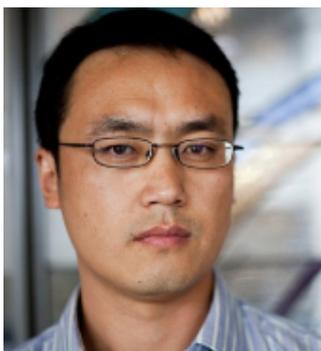
**HUA
CAI**
MEMBER



**REID
LIFSET**
MEMBER



**DOMINIK
WIEDENHOFER**
MEMBER



**MING
XU**
IMMEDIATE PAST-PRESIDENT

Selection Process of Candidates

There are **two vacancies for the Board** and **two vacancies for the Nominating Committee** to be filled this year. The Nominating Committee sent out the call for nominations to the ISIE membership at the end of 2025.

We received a diverse pool of 22 nominations in total. Adhering to the ISIE's bylaws and housekeeping rules, the Nominating Committee had a thorough discussion considering a gender balance and representation of the membership's diversity across geographical locations, age groups, and areas of interest. We identified five candidates for the Board and five candidates for the Nominating Committee.

The voting has finished and we elected two new Board Members: **Xiao Li and Oliver Heidrich**, and members of the Nominating Committee: **Kangkang Tong and Magnus Fröhling**.

CAREER COMMITTEE REPORT



**QINGSHI
TU**
CO-CHAIR



**JOANA
BASTOS**
CO-CHAIR



**GLENN
AGUILAR-
HERNANDEZ**
CO-CHAIR



**ELIZABETH
WACHS**
CO-CHAIR

The main focus of the Career Committee in 2025 was collaboration and outreach to students, which included:

- Supporting the International Symposium on Sustainable Systems and Technology (ISSST) at their 3-minute mentorship event. Students had the opportunity to chat with up to 3 professionals in the academia or industry for career advice.
- For the ISIE Conference 2025:
 - Developing—together with the ISIE Student Chapter—a Career Development Workshop, designed especially for final-year students to help them explore potential career paths within the IE field. We developed a panel discussion featuring professionals—from consultancy, academia, and public organizations—and the interactive activities kept students engaged throughout the session.
 - Participating in the Buddy Program led by the ISIE Student Chapter, which helped foster interactions among students during the conference. As part of the Buddy Program, we introduced a ‘mentor pin’ that enabled students, particularly newcomers, to quickly identify and connect with mentors for support and guidance.

- Meeting with ISIE members to develop a mentorship program for the Sustainable Urban Systems section. This mentorship program could be a model for the other sections. A common challenge for these programs is finding mentors, since our membership is weighted towards students.
- Keeping active the ISIE Mid-month Jobs Newsletter.

We welcome additional members interested in promoting career opportunities for members. Likewise, we are happy to work with other committees or sections to provide support on mentorship or career related topics.

EDUCATION COMMITTEE REPORT



Lynette Cheah (Chair)
Singapore University of
Technology and Design



Stijn Van Ewijk
University College London



Ramzy Kahhat
Pontifical Catholic University
of Peru



Reed Miller
University of Maine



Heather M. Logan
Technical University of
Denmark

The ISIE Education Committee is in place to advance education initiatives for our Society. We hope to build a community of educators that can teach industrial ecology subjects well to the next generation of sustainability leaders. Key activities in 2025 include:

1. Launch of a textbook grant program trial

With support from ISIE and the Development Board, a textbook grant program trial was launched with the intent of providing free textbooks to members who need these essential teaching materials. Towards the end of 2025, ISIE members were invited to apply for textbooks listed on the [ISIE Educational Resources webpage](#), which is also maintained by the Education Committee.

2. Bringing together IE educators

Educators were brought together at the 12th International Conference on Industrial Ecology (ISIE2025) to share teaching experiences, innovations and best practices. The Education Committee organised a special session at the conference, featuring 12 speakers in a lightning talk format, spreading ideas and inspiring others (see [summary](#)). The platform offered a way for educators to exchange notes, in order enhance the learning experience for current and future IE students.

3. Global Curriculum for Industrial Ecology project

The Committee supports an educational research project funded by ISIE, University College London, and University of Witwatersrand. The project aims to establish guidance for teaching IE in diverse settings. The Committee co-organized a workshop at the virtual International Industrial Ecology Day to bring together educators to discuss the Global Curriculum, the results of which fed directly into the (ongoing) project.

In 2026, we look forward to welcoming a new Chair to the team, Associate Professor Andrea Hicks. We thank everyone who has been involved in our engagement activities, and look forward to your continued participation.

Committee members:

- Lynette Cheah (Chair), University of the Sunshine Coast, Australia *
- Ramzy Kahhat, Pontifical Catholic University of Peru
- Heather Logan, Technical University of Denmark
- Reed Miller, University of Maine, USA
- Stijn Van Ewijk, University College London, United Kingdom

* Contact: lcheah@usc.edu.au

REPORT ON THE 12TH INTERNATIONAL CONFERENCE ON INDUSTRIAL ECOLOGY



**LYNETTE
CHEAH**
CO-CHAIR



**KUA HARN
WEI**
CO-CHAIR

The 12th International Conference on Industrial Ecology (ISIE2025) was held from 1–4 July 2025 in Singapore. As the flagship biennial event of the International Society for Industrial Ecology (ISIE), we were pleased that the conference brought together over 650 delegates from more than 50 countries to advance research, practice, and policy in industrial ecology and sustainability.

Under the theme “Interconnectivity — Recognizing the Mutual Dependencies”, ISIE2025 explored the critical relationships between industry, society, governance, and the environment across different scales of human settlements. Singapore, as a thriving international trade hub and a model for sustainable urban development, provided the ideal setting for these discussions.

7 distinguished keynote speakers were featured from world-leading institutions, sharing knowledge on planetary boundaries, circular economy in South Africa, urban systems in India, social metabolism, the power of urban design, and a regenerative economy in Asia Pacific.

Professor Marian Chertow reflected on 25 years of Industrial Symbiosis at Yale and was honoured for nurturing a community of researchers.

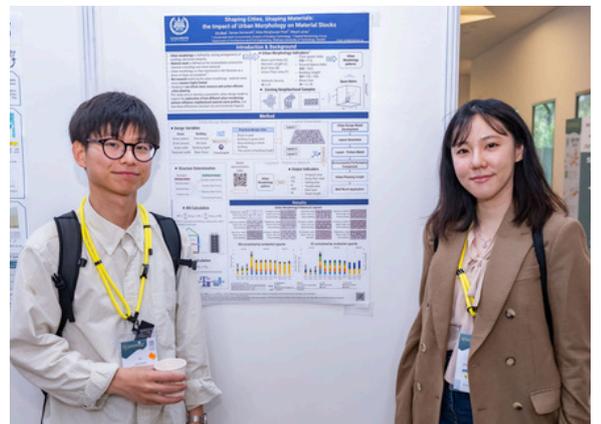
There were around 80 parallel sessions covering cutting-edge research, including 22 member-led special sessions. Topics spanned the use of AI, human behaviour, public policy, and decent living standards, a journal editor panel, just to name a few. ISIE2025 saw 370 oral presentations and 270 poster presentations delivered. The conference was preceded by the 9th Symposium on Industrial Ecology for Young Professionals (SIEYP) and the 18th Industrial Symbiosis Research Symposium (ISRS). It was a busy and productive week!

There were ample opportunities for networking – making new contacts and catching up with old friends at different social events. These included a welcome reception, local tours, section meetings and a dinner banquet at the colourful Flower Dome, Gardens by the Bay.

We capped off the event with awards presentations during the closing ceremony, honouring notable contributions to our expanding field. Congratulations to the award recipients and we are glad to celebrate their achievements.

We acknowledge the joint efforts of the dedicated Students Section, Programme Committee and Scientific Committee, and sponsors to make this event happen. Thank you for the opportunity to play host to our IE community and share a part of the Singapore experience with you.







INTERNATIONAL INDUSTRIAL ECOLOGY DAY REPORT



**EUGENE
MOHAREB**
CO-CHAIR



**SHWETA
SING**
CO-CHAIR



**IE day 2025
Nov 21st**

Sessions were organised across multiple time zones, enabling equitable participation from the Indo-Pacific, Europe/Africa, and the Americas.

Overview

The International Society for Industrial Ecology (ISIE) hosted the fifth annual International Industrial Ecology Day (IE Day) on 21 November 2025, building on the success of previous editions and its growing recognition as one of the Society's flagship global events.

Originally created during the pandemic as a digital alternative to in-person conferences, IE Day has evolved into a permanent, decentralised global festival of industrial ecology, showcasing cutting-edge research, methods, policy dialogues, and practice-based innovation across regions and time zones.

The 2025 event continued to respond to rising global demand for scientifically-grounded guidance on circular economy transitions, decarbonisation, material efficiency, and sustainability analytics.

Programme Overview

IE Day 2025 featured a diverse programme comprising 25 sessions spanning the globe.

Examples of session themes for 2025:

- Australia's circular economy pathways
- Positive tipping points applications
- Plastics circular economy India focus
- Industrial ecology data infrastructure
- Assessing energy system circularity
- Planetary boundaries & just transitions
- UNEP global LCA data building
- Industrial ecology curriculum workshop
- Island sustainability futures focus
- Rebound effects in circular systems
- Industrial symbiosis debates & tools
- Policy brief writing guidance
- Used EV battery circularity south
- New books in industrial ecology
- Urban consumption theories & methods
- Circular economy in Latin America/Caribbean

Participation and Engagement

IE Day continues to attract a broad global audience of ISIE members, academics, practitioners, and students.

The 2025 event drew over 500 participants across 25 sessions, with six sessions exceeding 100 registrants. While data on attendance was not universally available, a total of ~480 attendees were recorded for the 13 sessions reporting, with an average of 37 attendees per session.

It should be noted that high attendance was not the goal of each session, especially where engaged, active participation was a key metric of success (e.g., workshop sessions).

Recorded Sessions and Open-Access Outputs

IE Day has established itself as a producer of high-quality, openly accessible academic content. In 2025, ISIE uploaded recorded sessions to YouTube, with 7 videos uploaded from the day, reaching over 600 views in the 6 weeks to Jan 27, 2026.

Organisation, Governance, and Recommendations

IE Day's success depends on distributed effort across ISIE nodes. The 2024 report highlighted the need for:

- Establishing clearer protocols for selecting IE Day Chairs
- Appointing two Co-Chairs to manage the growing workload
- Strengthening regional participation
- Enhancing engagement in Africa and the Americas
- Rotating "start" locations across time zones to improve inclusivity

A protocol was initiated to include a previous chair to lead this year's IE day (Eugene Mohareb), with a new co-chair (Shweta Singh) to ensure a transfer of experience for delivery in the subsequent year. Further, an organising committee assisted in delivery increased contributions from the Americas, as well as our first event hosted in Africa (special thanks to Glenn Aguilar Hernandez and Nobantu Mtimbe).

Another initiative ensured that the student section, our largest membership cohort, had access to mid-day slots to boost access and attendance within this important group.

The student section was engaged with early, to determine their preference for the type of event desired. It was concluded that a career-focused event was desired instead of the poster competition sessions provided last year (which had issues due to inconsistent scoring due to judge availability, as well as having a tendency to exceed allotted time slots and minor issues around presenter attendance).

Some issues arose from this year's events:

- Few sessions delivered from South and East Asia, two areas of particular interest for membership growth
- Continued bottle-necking of sessions in the desirable early afternoon Central Europe Time slots made it difficult to even distribute and reduce overlap of sessions
- Not all sessions were recorded; whilst this was not an issue of itself as some were not suitable for recording, ideally all conventional webinar sessions would be recorded in the future

Recommendations for Next Year

- Strengthen the Chairing Protocol and Succession Plan - Continue the rolling Chair-Co-Chair model where a previous Chair partners with a new Co-Chair to ensure continuity. Formalise a two-year leadership cycle (Year 1 as Co-Chair/learning; Year 2 as Chair).
- Expand Regional Participation, Especially in South Asia and East Asia - Proactively engage institutions and researchers in India, China, Japan, Korea, Singapore, and Southeast Asia.

Consider introducing a dedicated regional showcase session to build visibility and reduce entry barriers. Provide simple hosting templates and guidance for first-time regional organisers.

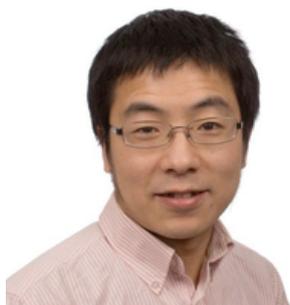
- **Improve Time-Zone Balancing and Reduce Bottlenecking** - Introduce a formal scheduling matrix to prevent clustering of sessions during early-afternoon CET. Use a fair allocation method (e.g., a “slot lottery” or first-come, first-served) for oversubscribed time windows.
- **Standardise Recording Practices Across Sessions** - Apply a default expectation that all conventional webinar sessions are recorded unless hosts opt out. Provide a checklist for organisers to include collecting data on attendance and ensuring a recording is made where applicable. Consider an advance request of short summaries where recording is unsuitable, if it doesn't overburden prospective organisers.
- **Continue Strengthening Student Engagement** - Preserve mid-day CET time slots for student-focused events to maximise accessibility. Maintain early consultation with student representatives; this year's shift toward a career-focused event worked well. If posters return, implement uniform judging criteria, fixed panels, and adequate time allocation to avoid overruns (this may mean a more stringent selection process).
- **Consolidate and Formalise the Organising Committee Structure** - Expand the committee with representatives from each major time-zone region, plus communications and technical roles. Begin monthly coordination meetings at least four months before the event (even with support from the board at the Singapore conference, recruiting committee members proved challenging). Maintain a shared repository for templates, planning documents, communications assets, and past reports (These can be provided based on the MS Form created by Cristina Madrid Lopez in 2024).

- **Encourage Thematically Diverse and Underrepresented Topic Areas** - Issue a call for priority themes each year (e.g., data infrastructure, socio-economic transitions, or emerging methodological areas). Actively recruit proposals from underrepresented areas to broaden the field's interdisciplinary reach.
- **Build on Momentum in Africa** – Engage with regional ambassadors early (e.g., spring) and expand partnerships with African universities and networks. Consider offering small organisational support grants, especially for early-career scholars, to encourage engagement.

Summary

IE Day 2025 continues the tradition of bringing together the global industrial ecology community for a day of learning, exchange, and impact. The strong programme, global participation, and growing multimedia outputs reflect the event's increasing importance as a platform for communicating industrial ecology insights to researchers, policymakers, and practitioners worldwide.

JOURNAL OF INDUSTRIAL ECOLOGY REPORT



GANG LIU

CO-EDITOR- IN
CHIEF



**RICHARD
WOOD**

CO-EDITOR- IN
CHIEF



**JUNMING
ZHU**

CO-EDITOR- IN
CHIEF

JIE - 2025 in review and plans for 2026

In tandem with the Society's growth, its official journal, the *Journal of Industrial Ecology*, has also undergone significant changes and achieved notable progress, which we are pleased to summarize below.

The most important change we want to report is the shift to another publisher. We have been with Wiley for many years and our contract with them expired at the end of 2025. The Editor-in-Chief team, with support from our founding editor Reid Lifset and the ISIE board, has made enormous efforts in exploring possibility of contract renewal with Wiley and finding alternatives throughout 2025. Considering factors like financial offer, services provided, and publishing model, the ISIE board has eventually decided to choose Springer Nature as our new publisher, effectively from January 1, 2026. This means our journal homepage and submission system have moved from Scholar One (Wiley's platform) to Snapp (Springer Nature's platform), which many of you may have already explored.

Coinciding with this publisher change, we also took the opportunity to refresh our editorial board and associate editor panel. We are confident that, with the new publisher, better financial situation, and refreshed editorial team, we will provide even better service to the Society and our journal readership. We appreciate your understanding and support during the transition, and expect you to continue to submit your best industrial ecology work to the JIE.

The number of articles we received and published continues to increase in recent years. A total of 746 manuscripts were submitted to the JIE in 2025, including about a quarter already submitted via our new Snapp platform. Meanwhile, a total of 168 articles were eventually accepted and published. This includes many interesting and innovative papers, for example those on the role of industrial ecology in circular economy, resource criticality, energy transition, and urban sustainability, as well as method advancements in life cycle assessment, material

flow analysis, and multi-regional input-output analysis. It is important to highlight that 68% (or 112) of all published articles in 2025 have been published as open access, which provides immediate access to all readers across the world without a paywall. We will continue this hybrid model (both open access and traditional subscription are allowed) with Springer Nature in the coming years.

We continue to improve our service to our authors. With invaluable support and contribution of our reviewers, including many of you, the speed of JIE article processing has shown clear and consistent improvement in recent years. The time from submission to first decision decreased from 48 days in 2021 to 44 days in 2022, 40 days in 2023, and further down to 38.6 days in 2024. More remarkably, the time from submission to acceptance — a metric that inherently includes author turnaround time — has decreased from 216 days in 2020 to 101 days in 2024. This is overall on a par with, and for some metrics even better than, other domain journals in our field.

Special issues are an important channel in today's publishing world. In 2025, three special issues were published in the JIE, namely Product Lifetimes and Industrial Ecology; the 2023 ISIE Conference Special Issue; and Biodiversity Finance: Measuring and Managing Biodiversity in Corporations and Financial Markets. Meanwhile, we currently have the following special issues in progress: Advancing Life Cycle Assessment Through Artificial Intelligence; Industrial Ecology in India: Mapping a Path for the World's Most Populous Country to Decouple Living Standards from Environmental Degradation; Resilient Urban Futures: Bridging Industrial Ecology with City Resilience; Risks in Industrial Decarbonization toward Carbon Neutrality: Nexus of Resources, Environment, and Economy; and the 2025 ISIE Conference Special Issue. We appreciate all the proposals and submissions we have received and welcome you to reach out in case you have any good ideas for special proposals.

The journal continued to highlight and acknowledge articles that contribute to industrial ecology science advances and make real-world impacts, with our established awards. In 2025, we awarded the 2024 Graedel Best Paper Prize for Senior Author to Professor Huijuan Dong and team from Shanghai Jiao Tong University, China, for their article on material flow and supply-demand feature of Thulium in China, and the 2024 Graedel Best Paper Prize for Junior Author to Raphael Ginster and colleagues from Technische Universität Braunschweig, Germany, for their article on integrating life cycle assessment and system dynamics modelling on recycled content and environmental impacts of circular battery production in the EU.

In 2025, we introduced the Bob Ayres Award for the most impactful article on social, environmental, and/or economic sustainability, continuing Bob Ayres' tradition of making impactful contributions of the highest quality at the intersection of industrial systems and sustainability. The first edition of the Bob Ayres Award, which was announced at the closing ceremony of the 2025 ISIE biennial conference held in Singapore, was presented to Troy R. Hawkins, Bhawna Singh, Guillaume Majeau-Bettez, and Anders Hammer Strømman for their work published in 2012 entitled "Comparative Environmental Life Cycle Assessment of Conventional and Electric Vehicles." The selection committee particularly credits their work for providing an early and influential discussion on the environmental impacts of electric vehicles.

In 2025, we continued our social media promotion activities for the journal and published articles across various channels. A total of 58 related articles were published via the JIE official WeChat account, amounting to approximately 60,000 words in total. These articles were read by 21,000 users, generating 63,000 views and 2,720 shares among Chinese readers.

Meanwhile, we continued to leverage the impact of the journal's LinkedIn page, with an outreach team comprising four volunteers, to promote research articles throughout 2025. The team promoted 40 articles, garnering 38,485 impressions and 667 reactions. The most covered and viewed articles are those with societal and policy relevance, particularly those related to circular economy, resource sustainability, and climate change mitigation.

We thank you again for your continued support throughout a year of significant change and achievement. We sincerely appreciate and strongly encourage you, as authors, reviewers, and readers, to continue supporting the journal with your best submissions, timely reviews, and enthusiastic promotion. We are committed to providing a premier publishing platform for cornerstone industrial ecology work—with speed, impact, and visibility—and we invite you to join us in this exciting new chapter.

Gang Liu, Richard Wood, and Junming Zhu
Co-Editors-in-Chief

SOCIAL-MEDIA OUTREACH REPORT



**IRENA
DUKIĆ**

ADMIN AND OUTREACH
MANAGER



**XIAO
LI**

WECHAT
SUPPORT

Overview

In 2025, the International Society for Industrial Ecology (ISIE) continued to strengthen its digital communication and global visibility through a structured and consistent social media strategy. Social media remains a key channel for announcing conferences, promoting ISIE events, supporting Sections, and enhancing the Society's international reach.

Throughout the year, communication focused particularly on conference promotion, International Industrial Ecology Day (IE Day), Section-led webinar series, student initiatives, and calls for participation and nominations. LinkedIn remained the primary platform for professional outreach.

LinkedIn (Primary Platform)

LinkedIn continues to serve as ISIE's central and most effective professional communication platform.

Growth and Community

The ISIE LinkedIn Page grew significantly during 2025, increasing from approximately 1,600 followers to 2,600 followers. The LinkedIn Group, which serves as an interactive space for job sharing and networking, reached approximately 5K members.

Engagement levels were strongest during major event cycles, particularly around ISIE 2025 Singapore and IE Day 2025.

Content Highlights in 2025

ISIE 2025 Singapore Conference

A structured promotional campaign was implemented in the months leading up to the biennial conference. Posts included:

- 40-day and 3-day countdown reminders
- Official opening announcement
- Daily updates during the conference
- Closing and highlight posts

This sustained communication helped build visibility and anticipation for the conference.

International Industrial Ecology Day (IE Day 2025)

Promotion of IE Day 2025 followed a structured timeline:

- 1-month reminder
- 2-week reminder
- 10-day countdown
- 24-hour reminder
- Dedicated Student Section spotlight
- Post-event recordings release

The campaign generated strong engagement and reinforced IE Day as a flagship annual event of the Society.

Webinar Series and Knowledge Dissemination

Webinar promotion was the most consistent recurring content theme in 2025. Posts supported:

- Life Cycle Sustainability Assessment (LCSA) webinar series
- Environmentally Extended Input-Output (EEIO) “Data Matter” webinar launch
- Journal of Industrial Ecology (JIE) webinars
- Student Section webinars
- Recording releases via YouTube

The consistent cadence of webinar announcements and follow-up posts strengthened ISIE’s visibility as a knowledge exchange platform.

Section Visibility

A deliberate effort was made to increase the visibility of ISIE Sections. Promoted activities included:

- Launch of the Public Policy Section
- Island Industrial Ecology documentary (“Metabolism of Islands”) trailer and release updates
- Sustainable Circular Economy virtual special issue
- SEM Perpetual Online Conference sessions
- LCSA workshops and AI4LCA initiatives
- Student Section networking and career events

This cross-Section communication enhanced awareness and participation across the Society.

Calls and Opportunities

LinkedIn posts also supported professional development through announcements such as:

- Call for ISIE Member Proposals
- Call for Nominations – ISIE Awards 2025
- Summer School applications
- Free textbook applications
- Postdoctoral position (Resource Risk Modelling)
- Session proposal deadlines

Community Recognition

Community highlights included:

- 25th Anniversary of ISIE
- Recognition of a Highly Cited Researcher
- Seasonal greetings and milestone posts

While fewer in number, such posts generated strong positive engagement.

Engagement Trends

Posts generating the highest engagement in 2025 included Conference countdown and opening announcements, IE Day reminders and session features, Webinar launches and recording releases, Documentary-related posts, Member recognition announcements. Overall, event-driven and webinar-related content remains the strongest driver of engagement.

X (formerly Twitter)

ISIE maintained an active presence on X, publishing over 188 posts.

The platform was primarily used for:

- Real-time updates during conferences and IE Day
- Sharing Journal articles
- Cross-promoting LinkedIn announcements

While engagement levels remain lower than LinkedIn, X continues to serve as a relevant channel within academic research networks, with 685 followers as of today.

Facebook

ISIE maintains both a Facebook Page and a Facebook Group. Page followers: 133; Group members: 1,436.

Although activity levels are lower, we continue to share key announcements on this platform to reach audiences who may not be active on other channels.

YouTube

The ISIE YouTube channel continues to function as a knowledge archive. In 2025, uploads included IE Day session recordings, ISIE Sections webinar recordings, conference-related content.

This supports long-term accessibility of ISIE content beyond live events and contributes to global outreach. The YouTube channel currently has 475 subscribers, 81 videos, and 14,344 total views. It remains ISIE's second most important outreach platform, serving as a long-term knowledge archive. The most viewed video, "10 Insights from Industrial Ecology for the Circular Economy," has reached 2.9K views.

WeChat Outreach

In 2025, a total of 58 related posts were published via the WeChat official account, amounting to approximately 60,000 words in total. These posts were read by around 21,000 users, generating approximately 63,000 views, 224 likes, and 2,720 shares.

The content mainly included conference updates, journal highlights, calls for papers, member achievements, and selected international news relevant to the industrial ecology community. Overall, the WeChat platform continues to serve as an important bridge connecting ISIE with Chinese-speaking scholars and practitioners.

Social media will continue to serve as a key instrument for strengthening ISIE's global presence, supporting members, and communicating the value of industrial ecology to wider sustainability communities.

Thank you all for your continued support and contributions to the ISIE community!



Follow us on LinkedIn, YouTube, Twitter, Facebook and WeChat for the latest updates!

ISIE Sections

Environmentally Extended Input-Output
Industrial Symbiosis and Eco-Industrial Development
Island Industrial Ecology
Life Cycle Sustainability Assessment
Socio-Economic metabolism
Students
Sustainable Circular Economy
Sustainable Urban Systems
Public Policy

Members of the ISIE are able to join subject sections as part of their membership. Sections provide a small community within the ISIE through which ideas are exchanged and collaborations are formed. Members can engage on a minimal level or can be considered for leadership positions within a Section.

ENVIRONMENTALLY EXTENDED INPUT-OUTPUT SECTION

Reflecting on 2025

The Environmentally Extended Input-Output (EEIO) Section serves as a foundational pillar within the International Society for Industrial Ecology (ISIE). As the global economy becomes increasingly interconnected, EEIO analysis has emerged as the definitive tool for decoding the environmental footprint of complex global supply chains. By linking economic activities to environmental pressures, it provides unparalleled insights into "hidden" upstream emissions and resource consumption that traditional accounting often misses.

As an indispensable chapter of the ISIE, our mission is to advance the academic frontiers of EEIO internationally and catalyze its application in shaping sustainable policies and corporate strategies.

Throughout 2025, the EEIO community has actively bridged the gap between theory and practice by maintaining strategic cooperation with international organizations and industry leaders. Furthermore, we have significantly enhanced our collaboration with the International Input-Output Association (IIOA), co-hosting webinars and knowledge-sharing sessions to empower our members with the latest research in Input-Output Analysis. This year's deepened engagement reflects our commitment to fostering a robust, interconnected global community dedicated to transparency and sustainability in global production.



Figure 1: Global distribution of members of the ISIE Student Section as of February 2026.

As of February 2026, the EEIO Section proudly encompasses 383 dedicated industrial ecologists from 49 countries and regions (see Figure 1). However, we must candidly acknowledge a 6% decline in membership compared to 2025. We view this contraction with sincere concern, as it reflects a pressing need to reinforce the perceived value and influence of the EEIO within the broader ISIE community. This trend also underscores the urgency of our mission to revitalize the section through more vibrant activities and to demonstrably showcase why EEIO remains the cornerstone of supply chain environmental analysis.

Looking ahead

To catalyse growth and engagement, we are launching the Revitalization Project (Aka “MEIOGA”), built on three strategic pillars:

1. "Data Matter" webinar series 2026. We are delighted to announce the launch of the ISIE-EEIO "Data Matter" Webinar Series for 2026. This series is designed as a premier platform for our community to engage with the latest advancements in EEIO (Environmentally Extended Input-Output) datasets and to learn directly from the developers at the forefront of the field. The Webinar is monthly organized, and we plan to invite key dataset developers to present the latest progress (e.g. EMERGING, Gloria, EXIOBASE, et al).

2. Deepening Strategic Collaboration with IIOA. As the largest global community for input-output research, the International Input-Output Association (IIOA) shares a highly overlapping membership and research interest with our section. Building on our rich history of cooperation, we will further integrate our activities: (1) Joint Events: Co-organizing special sessions and workshops at both ISIE and IIOA conferences to bridge the gap between industrial ecology and IO economics. (2) Reciprocal Promotion: We will utilize IIOA's established communication channels and mailing lists to promote ISIE-EEIO activities (such as our "Data Matter" series), while cross-promoting IIOA's seminars and summer schools to our members.

3. Enhancing academic leadership. To enhance the academic visibility of EEIO research, we will initiate Special Issues in leading journals at the intersection of industrial ecology and policy, such as the Journal of Industrial Ecology (JIE), Resources, Conservation and Recycling (RCR), and Sustainable Production and Consumption (SPC).

Through these initiatives, we are confident that we will see a significant growth in our membership and engagement by next year. Our goal is to cultivate a section that is not only a repository of knowledge but a vibrant, high-energy hub for collaboration and innovation. Please look forward to a more active and energized EEIO Section! We invite you to join us in this journey of revitalization.

SECTION LEADERSHIP

Co-Chair **Heran Zheng**

Co-Chair **Keisuke Nansai**

Board Member **Sébastien Dente**

Board Member **Xiangjie Chen**

INDUSTRIAL SYMBIOSIS AND ECO-INDUSTRIAL DEVELOPMENT

The Industrial Symbiosis (IS) section of ISIE continued to actively foster collaboration between researchers, practitioners, and policymakers through a series of initiatives during 2025.

As part of the **ISIE 2025 conference in Singapore**, the section organised the **Industrial Symbiosis Research Symposium (ISRS)** as a full-day pre-conference event. The symposium provided a dedicated forum for researchers and practitioners to discuss current developments and emerging debates in industrial symbiosis, including the role of industrial clusters in achieving net-zero transitions and advancing circular economy practices. The event also aimed to facilitate dialogue around policy developments supporting eco-industrial parks and industrial cluster transitions.

In addition, the section launched a **new webinar series** aimed at disseminating recent research and policy developments in industrial symbiosis. The first webinar, titled “Approaches to Quantifying the Potential of Industrial Symbiosis: The UK Case Study,” presented findings from a study prepared by Europe Economics for the UK Department for Energy Security and Net Zero (DESNZ). The webinar explored a methodological framework to assess the economic potential of industrial symbiosis across sectors such as cement and concrete, glass, chemicals, food and drink, and agriculture, and discussed key barriers, drivers, and policy strategies for scaling industrial symbiosis initiatives.

The IS section also contributed to the **Industrial Ecology Day 2026** by organising a participatory workshop titled “Current Debates in Industrial Symbiosis: Tools, Technologies and Business Models.” The 90-minute session brought together researchers, practitioners, and policymakers to explore emerging tools and methodologies, technological innovations, and new business models supporting industrial symbiosis. Through keynote presentations, breakout discussions, and collective debate, participants identified research priorities and opportunities for strengthening collaboration within the ISIE community. The workshop attracted 50+ attendees from 30+ institutes and organisations across the world.

We are currently working on organising a Special Issue on the current debates of Industrial Symbiosis in a Q1 peer review international journal, to advance theoretical and applied research in the area of Industrial Symbiosis.

Together, these activities have strengthened the ISIE Industrial Symbiosis section by promoting knowledge exchange, fostering interdisciplinary collaboration, and supporting the advancement of industrial symbiosis and Industrial Ecology.



Photo 1. ISRS 2025 group photo at National University of Singapore

SECTION BOARD MEMBERS

Chair **Teresa Domenech Aparisi**

Vice Chair **Luca Fraccascia**

Treasurer **Biji Kurup**

Secretary **Koichi Kanaoka**

Coordinator / Ambassador **Xiaohan Wu**

ISLAND INDUSTRIAL ECOLOGY SECTION

Introduction

The Islands section currently has 132 members, from all regions (Figure 1). This report highlights some of the key section activities in 2025.

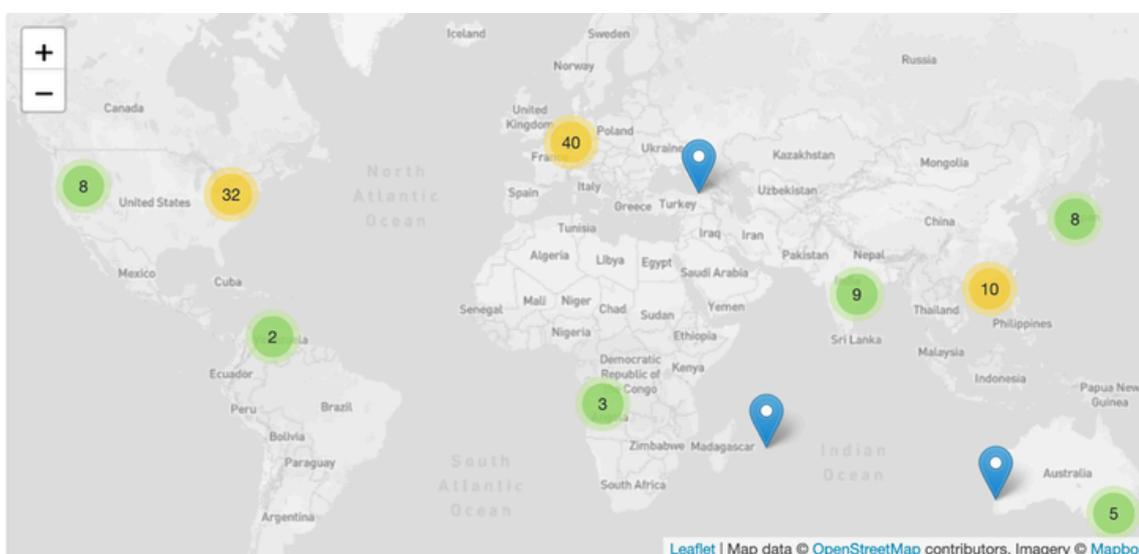


Figure 1: Map of distribution of Island - IE members

Special “Islands” session at the 12th International Conference on Industrial

The Island-IE section organized a special session at the 12th International Conference on Industrial Ecology, 1-4 July in Singapore. The session was titled “Strategies for Resilient Islands: Risks, Vulnerabilities, and Transformative Actions” and co-chaired by Simron Singh, Andrea Thorenz, and Lynette Cheah. Four presentations across island cases: Reunion, Maldives, Mauritius, and Hawaii. The trailer on the documentary “Metabolism of Islands” was first shown at this session (see below).

Eighth Sustainable Island Futures (SIF) Symposia was organized together with IE Day

The Island-IE section maintains collaboration with the Sustainable Island Futures (SIF)

Symposia Series, an initiative led by the Sustainable Island States Science, Technology, Engineering, and Mathematics (SISSTEM) group at the University of Aruba. This partnership, in conjunction with Metabolism of Islands (MoI), organizes biannual symposia that bring together researchers from around the world to explore strategies for promoting sustainability in small island states. On 21 November 2025, the 8th virtual Sustainable Island Futures (SIF) symposium was integrated with the IE Day, focusing on critical themes such as resource circularity, island metabolism, industrial ecology, socio-metabolic research, and island resilience. The event featured four talks with case studies from diverse island regions (Figure 2).

Friday, November 21, 2025				
05:00 - 07:30 PST	8:00 - 10:30 EST	9:00 - 11:30 AST	13:00 - 15:30 UTC	14:00 - 16:30 CET
Name	Topic	Time (AST)		
Nigel John	Welcome and Introduction	9:00 - 9:05		
Shubhi Singh	The Socio-metabolic Risks Emerging from Interlinked Stressors in Seychelles	9:05 - 9:30		
Emily Voigt	Analyzing Socio-Metabolic Risks in Water Systems: A Hydro-SMR Framework for Greater Malé, Maldives	9:30 - 9:55		
Simron Singh	Discussion	9:55 - 10:10		
Break		10:10 - 10:20		
Ben Sonneveld	Household Food Insecurity, Socio-economic Inequalities, and Child Stunting in Suriname: Evidence from a Mixed-Methods Study	10:20 - 10:45		
Esther Plomp	Eligible for Funding ≠ Inclusive Funding	10:45 - 11:10		
Nigel John	Discussion/ Feedback	11:10 - 11:20		
Simron Singh	Closing	11:20 - 11:30		

Figure 2: Agenda of the 8th SIF symposia on IE Day

Island Industrial Ecology documentary released

In May 2023, the ISIE membership approved a [member proposal](#) to create a 30-minute documentary on the science and education of “metabolism of islands” or Island-IE. The member proposal enabled the section to facilitate the planned film project as part of the Industrial Ecology Lecture Series. The section was faced with a unique opportunity in October 2023 with a majority of the section board present in Aruba at the second International Conference on Small Island States and Subnational Island Jurisdictions. The documentary was completed by Alexandra Ulacio with direction from Simron Singh, and feedback from Island board members.

The [trailer was shown and officially announced](#) at the Singapore ISIE conference, 1-4 July 2025, and the [full documentary was announced](#) on 6th October 2025 in the ISIE news (Figure 3). The full documentary can be watched on: <https://www.youtube.com/watch?v=C7nxYB69veY>

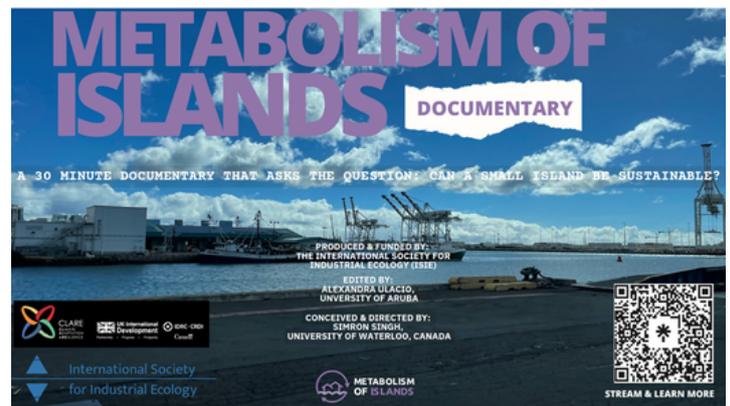


Figure 3: Flyer for the “Metabolism of Islands” documentary

Islands-IE module delivered at the Summer Institute in Systemic Risks, Cascades and Tipping Points (CASCADE)

The first CASCADE Summer Institute successfully took place from October 17th to 26th, 2025, at the Mediterranean Institute for Life Sciences (MedILS) at the University of Split, Croatia. CASCADE was organized jointly by the University of Split (Croatia), the University of Waterloo (Canada), the University of Augsburg (Germany), the University of Graz (Austria), the University of Hamburg (Germany), and carried out as an Erasmus Blended Intensive Program (BIP).

CASCADE was taught by 10 instructors (some are ISIE members) from participating institutions, where 25 Master and Ph.D. students from different European countries came together for ten days. During CASCADE, students gained foundational knowledge on key system concepts and approaches by preparatory readings, plenary sessions, and keynotes.

The island module examined the cascading effects of tourism on Brač’s waste management system and how these effects might change in the future due to continued population growth. For more details, [visit the CASCADE page](#).



Figure 4: Participants of the first CASCADE summer institute

A certificate 10-week online course on “Metabolism of Islands”

Since June 2024, a 10-week remote course is being developed at the University of Waterloo (Canada) in collaboration with several island universities. The course has now passed certification at the University of Waterloo and will be rolled out in 2026 in collaboration with Caribbean and Indian Ocean universities, and co-taught by several ISIE members.

The course is delivered in 4 modules: Foundations, Methods, Applications, and Policy Integration. A brief video introduction of the 4 modules can be viewed [here](#).

New Research collaboration on Island Industrial Ecology Launched

Together with University of Augsburg, Germany – and as part of their flagship [Green Transformation](#) initiative led by Prof. Axel Tuma and Dr. Andrea Thorenz, Prof. Simron Singh (University of Waterloo and Island-IE section chair) launched a collaboration to take the field of “island industrial ecology” or “Metabolism of Islands” to the next level.

The collaboration focuses on systems analysis, resource management, and socio-metabolic risks. The first joint implementation project addresses the resilience of small island nations such as the Maldives, Hawaii, or Fiji in the face of climate change, particularly rising sea levels. The data and research generated will advance partnerships across island nations and ISIE, enable advanced analyses of climate adaptation pathways for islands, and develop targeted interventions. Read the full [press release here](#).

Upgrade and enlargement of the database “Metabolism of Islands”

In 2025, the [Metabolism of Islands \(MOI\)](#) data repository was upgraded and enlarged with significant data contribution from islands across the world (~60 islands). The MOI is a valuable resource maintained by the Islands-IE section, focused on the field of island sustainability and resource-use more broadly. The library serves as a repository of information related to the study of island resource-use providing researchers and policymakers with access to important literature and data.

The MOI library has experienced significant growth over the past year, with the number of items in the collection increasing from 330 in 2021 to over 1,200 items currently available. This includes 55 island-IE publications, 185 case studies, and 85 review articles.

Looking ahead

- Mobility program for Island-IE researchers based in island nations. A 6-month mobility and peer-mentorship program to support capacity strengthening for climate adaptation on Small Island Developing States (SIDS) is announced in February 2026. This is funded by the [RECOVER project](#) and is part of the above-mentioned collaboration with University of Waterloo (Canada) and the University of Augsburg (Germany).
- The core objective is to establish a network of “Hubs of Island Innovation” by connecting researchers from island nations conducting resource-use studies, several to be hosted by ISIE members and institutions across the world. Read the full announcement [here](#).
- Conference Special theme "Metabolism of Islands – Advancing an Island Circular Economy for Climate Adaptation in SIDS": The Maldives National University (MNU) is organizing its annual "[Theveli International Conference](#)", 17 - 19 August 2026. This year, some members of the "Islands" section (Simron Singh and Andrea Thorenz) have partnered with MNU to organize a special theme "[Metabolism of Islands – Advancing an Island Circular Economy for Climate Adaptation in SIDS](#)". For the full announcement, see [ISIE new here](#).
- Planning has started for the “Fourth Latin America and the Caribbean” regional conference in November 2026 focussing on the Americas, the Caribbean. The objective is to bring together researchers and practitioners from North, Central, and South America, and the Caribbean region, to highlight and mobilize material flow analysis and the circular economy around the informal sector in the global south that remains a significant gap in industrial ecology research. This will be led by diverse ISIE members from the Americas such as Costa Rica, Canada, Colombia, Peru and Brazil. It is expected that such an event would promote the society’s activities in communities that have not been reached and increase membership. Read the full announcement [here](#).

SECTION BOARD MEMBERS

Chair	Simron J. Singh
Vice-Chair	John Telesford
Secretary	Bart Van Hoof
Treasurer	Dominik Noll
Member	Bob Paul
Member	Simran Talwar

LIFE CYCLE SUSTAINABILITY ASSESSMENT SECTION

AI4LCA Workshop in Seattle (February 2026)

Dr. Qingshi Tu (LCSA Board member) co-organized a workshop with the Impact Measurement Science team at Amazon on “Deriving Actions for Decarbonization from Verifiable LCAs” at Amazon Headquarters (Seattle, WA). This workshop’s conceptual focus examines how verifiability serves as a cornerstone for credible LCA studies and how aligning AI-driven analyses with established standards (such as ISO 14040/44) can build stakeholder trust. Attendees conducted focused discussions on the best practices in validation and transparency, as well as the definition of actionability in the context of LCA/carbon accounting. The highlights of the workshop can be found [here](#).

Call for Papers: Advancing Life Cycle Assessment Through Artificial Intelligence

LCSA members coordinated a special issue call for the Journal of Industrial Ecology on “Advancing Life Cycle Assessment Through Artificial Intelligence”. The call is currently open until April 1, 2026 ([link](#)).

IE Day (November 2025)

LCSA members coordinated three 1-hour sessions during the 2025 IE Day. You can watch the recordings on how data, algorithms, and tools are shaping the future of research and applications of LCA:

- [Global LCA Platform: Building a Global Infrastructure for Life Cycle Assessment](#)
- [Future-oriented practices and infrastructure for data and models in industrial ecology](#)
- [Advancing LCA by Integrating Socio-Technical Complexity through Agent-Based Modelling](#)

A new section added to LCSA quarterly newsletter

Starting in 2025, we have included a section of Webinar series on “Data, Algorithms and Tools for Life Cycle Sustainability Assessment”. We invite researchers to introduce emerging data, tools and projects that advance the research frontier of LCA. Below is the list of webinars held in the past year:

- [Life Cycle Sustainability Assessment 6th Section Webinar - Dr. Paul Wolfram](#)
- [Life Cycle Sustainability Assessment 5th Section Webinar - Dr. Mo Li](#)
- [Life Cycle Sustainability Assessment 4th Section Webinar - Dr Fabian Lechtenberg](#)
- [Life Cycle Sustainability Assessment 3rd Section Webinar - Christian Kongsgaard & Maxime Agez](#)
- [Life Cycle Sustainability Assessment 2nd Section Webinar - Dr Stefano Merciai & Dr Yang Qiu](#)
- [Life Cycle Sustainability Assessment Section Webinar - Dr. Bu Zhao](#)

Looking ahead

The new Board is looking forward to 2026 with renewed energy and plans to:

- Organize recurrent LCSA-related webinars with relevant stakeholders via co-sponsorship agreements.
- Increase its activity on social media platforms to feature early-stage researchers and to help visualize emerging topics.

SECTION BOARD MEMBERS

Co-Chair **Qingshi Tu**

Co-Chair **Oludunsin Arodudu**

Board member **Andrea Hicks**

Board member **Peter Berrill**

Board member **Paul Wolfram**

Board member **Qingshi Tu**

SOCIO-ECONOMIC METABOLISM SECTION

With about 420 members, the socioeconomic metabolism (SEM) section of the International Society for Industrial Ecology (ISIE) is the largest global network of researchers employing material flow analysis for environmental sustainability assessment. Below, we summarize key recent and ongoing activities.

1. Section board (2025.01-2026.12)

Co-chairs: Zhi Cao (China) and Christoph Helbig (Germany)

Secretary: Maud Lanau (Sweden)

Board members (alphabetical): Peter Berrill (The Netherlands), Romain Billy (Norway), Wu Chen (Denmark), Shoshanna Saxe (Canada), Takuma Watari (Japan)

2. Perpetual SEM Online Conference

The perpetual SEM online conference is our continuous webinar and panel discussion format for socioeconomic metabolism research and policy interaction. Over the past five years, it has developed into a powerful platform for disseminating new research, fostering discussion on emerging topics, and attracting new members to ISIE.

In 2025, several member-led sessions were organized:

- **January:** Huimei Li (University of Freiburg) organized a session on scenario modelling for mobility systems.
- **February:** Members of the EU Horizon CIRCOMOD project led a session on circular economy modelling for climate change mitigation.

- **May:** Stefan Pauliuk (University of Freiburg) presented the Industrial Ecology Data Commons prototype and invited community contributions to data compilation.
- **October:** Xin Sun (University of Groningen) organized a session on critical material supply chains, featuring several articles from a special issue of Resources, Conservation & Recycling.

We sincerely thank all organizers and speakers for their contributions. All members are warmly invited to propose and organize future sessions.

3. International Industrial Ecology Day 2025

The fourth International Industrial Ecology Day was held online worldwide on November 21, 2025. Several sessions featured SEM-related topics and contributions from SEM members.

Multiple sessions addressed circular economy themes across sectors and regions, including Australia, South Africa, Latin America and the Caribbean, energy systems, plastics in India, and used EVs and batteries in the Global South.

Two sessions focused on data:

- One provided updates on the Industrial Ecology Data Commons, which now hosts more than 3.2 million data points compiled from hundreds of journal publications and datasets.
- The other explored best practices for data and software management in the context of artificial intelligence and digitalization.

In a session on positive tipping points, Helmut Haberl contributed insights into the study of tipping phenomena in socio-metabolic research.

4. ISIE 2025 Singapore

At the ISIE biennial conference in Singapore (July 2025), the SEM section held a well-attended meeting with around 30 participants. We thank the conference organizers for providing space in the official program.

Following introductions, we presented recent achievements and the section's financial status. Strategic goals and membership proposals were discussed.

Participants then divided into three subgroups to address: (1) The 2026 conference in Cambridge; (2) The Perpetual Online Conference and related activities; (3) Databases, infrastructure, teaching, and community resources.

Online activities and outreach. Participants emphasized maintaining and expanding the Perpetual Online Conference and IE Day, potentially including awards for outstanding SEM-related content. Suggestions included organizing one-day or half-day SEM events at other conferences, as well as site visits and mini-conferences with industry partners (e.g., the UK Construction Industry Association) to showcase practical applications of MFA/SEM research.

Education and training. There was strong interest in developing online training programs for PhD candidates, potentially modelled after successful ISWA training initiatives, and in strengthening links between SEM and the Student Section's IE platform.

Strategic collaboration. Participants discussed potential collaboration with the Ecological Economics & Sustainable Transition Societies and the new Public Policy Society, while also emphasizing the need for terminology that is more inclusive of the Global South.

Community resources. Attendees noted the need to streamline existing content to avoid information overload, particularly for students unfamiliar with available resources. The board will address this by introducing a clearer website structure (including a table of contents) and exploring possible coordination with the main ISIE website.

There was also interest in expanding practical resources, including:

- Information on career pathways
- A glossary of key metabolism terms with references
- A simplified explanation of SEM
- Examples of knowledge transfer to policy and society
- More diverse case stories, especially from countries with emerging SEM communities

In addition, many ISIE-SEM members actively contributed to the scientific program by organizing special sessions and presenting their latest research at the Singapore conference. Their strong presence across diverse thematic tracks once again demonstrated the intellectual breadth and methodological depth of the SEM community. We sincerely thank all SEM members who contributed as session organizers, presenters, and discussants. Your engagement not only strengthened the visibility of socioeconomic metabolism research within ISIE, but also reinforced the section's role as a vibrant and leading hub within the broader Industrial Ecology community.

5. Website Changes Summary

A dedicated webpage for the Young Researchers Seminar (YRS) has now been added to the ISIE-SEM section website (<https://is4ie.org/sections/metabolism/pages/331>).

The page provides an overview of the seminar's objectives, format, and target audience.

As many of you know, the YRS offers an informal and supportive platform for graduate students, PhD researchers, and postdoctoral scholars working on sustainable material cycles and related methodologies such as Material Flow Analysis, Life Cycle Assessment, and Criticality Assessment. It aims to foster peer exchange, constructive feedback, and early-career networking within the Industrial Ecology community.

The new page also documents the history of hosting universities since 2017 and announces the upcoming hosts:

- 2026: University of Kassel (Germany)
- 2027: University of Augsburg (Germany)

In addition, practical information is provided for first-time participants, including how to join the mailing list and where to find further details about the upcoming seminar.

By adding this page, we aim to increase the visibility of early-career activities within the SEM section and further strengthen our commitment to community building and capacity development across the DACH region and beyond. We warmly encourage you to share this information with interested students and early-career colleagues in your networks.

6. Outlook on the year 2026

- ISIE-SEM 2026 Conference (Cambridge, UK, July 6-8): Abstract submission closed on January 31. The conference highlights three overarching themes:

Equity, Agency, and Urgency. A SEM section meeting will take place during the conference; details are available on the conference website (<https://www.isiesem26.com/>).

- Perpetual Online Conference 2026: The first session (February 25) will focus on lifetime assumptions in dynamic stock models. Recordings of previous sessions are available on the ISIE YouTube channel. Members are invited to submit session proposals via the IS4IE website or by contacting the board at metabolism@is4ie.org
- Bylaws Review: The current board plans to review and modernize the section's bylaws, with particular attention to election procedures and strengthening institutional memory. Members are invited to share suggestions.
- 20th Society and Materials (SAM) Conference: May 26-27, 2026, University of Liège, Belgium (<https://sam-conference.web.uah.es/wp/>).
- Industrial Ecology Gordon Research Conference: June 28-July 3, 2026, Sunday River, ME, USA. Theme: Orienting Toward Century-Scale Sustainability. Several SEM members are among the speakers.
- ISIE-SEM 2028 Conference: Two proposals to host the 2028 conference have been received and are under consideration.

The SEM Section Board looks forward to an engaging and productive 2026, with many opportunities for research exchange and collaboration.

SECTION BOARD MEMBERS

Peter Berrill

Romain Billy

Zhi Cao

Wu Chen

Christoph Helbig

Maud Lanau

Shoshanna Saxe

Takuma Watari

STUDENT SECTION

Overview

The ISIE Student Chapter aims to connect students with peers and the broader industrial ecology community and to provide a space for exchanging ideas and resources. The Student Chapter is represented by a board, consisting of 10 international members. The Student Chapter Board (SCB) helps with identifying career pathways, provides scholarship and networking opportunities, and disseminates knowledge on industrial ecology.

Membership

In January 2026, the number of industrial ecologists enrolled in the Student Chapter amounted to 486 members (nearly 41% of total ISIE members) from 61 countries across the globe as shown in Figure 1 below. The SCB Diversity and Inclusion Committee has been working to increase the representation of students, researchers, and practitioners who reflect the diversity of the global society that have been underrepresented in the field of industrial ecology.



Figure 1: Global distribution of members of the ISIE Student Section circa January 2026.

Achievements in 2025

- **Webinars:** The ISIE Student Section hosts a series of webinars designed to connect graduate students and early-career researchers with leading voices in industrial ecology and beyond. Our aim is to create a space where students can learn from diverse perspectives, exchange ideas, and gain insights into both academic and professional pathways. This year, we have invited seven speakers for three webinars covering a wide range of themes such as student entrepreneurship (speakers: Emily Farrar; Brandon Contino; Dr. Fernando Aguilar Lopez), methodological standards in industrial ecology (speakers: Dr. Joule Bergerson; Dr. Stefan Pauliuk), and translating research into policy (speakers: Dr. Ryna Cui; Dr. Da Huo). Through these events, the SCB has brought together speakers from academia, industry, and government, creating opportunities for students to engage with the breadth of industrial ecology in action.
- **SIEYP Singapore 2025:** As per tradition the SCB organized the SIEYP 2025 before the start of the ISIE conference on June 30th, 2025 (Figure 2). The symposium invites students and early career researchers. The event aims to connect students and to create lasting connections between our members while also offering workshops that will help members to develop skills or engage in new topics. The 2025 symposium was organized around the theme of “interconnectivity”. Invited keynote speakers were Dr. Shwetha Singh (Associate Professor at Purdue University), Dr. Ranran Wang (Associate Professor at Leiden University), and Dr. Aldrick Arceo (Postdoctoral researcher at the Structural Xploration Lab at EPFL). To facilitate skill development, the SCB organized four specialized workshops, including Career Development (collaborated with Career Committee); Storytelling (contributed by Dr. Stefano Cucurachi from Leiden University);

Environmentally Extended Input-Output Analysis (contributed by Dr. Ranran Wang and Dr. Timothy Na from Leiden University), and Entrepreneurship (contributed by Dr. Sangwon Suh from Watershed). In addition, a “Buddy Program” was organized to connect scholars across generations which hosted early-career scholars and experienced researchers and engaged them into conversations about challenges and mentor’s experiences regarding their career paths and research journey. Thanks to the financial support from the ISIE society and US NSF, the SCB also delivered a student poster competition and offered travel scholarships to student participants.

- **Diversity and Inclusion (D&I) subcommittee:** The D&I committee successfully launched a new webinar series titled “IE Around the World” to showcase the work of researchers and students from typically underrepresented regions within industrial ecology. By highlighting IE research around the world, this series aims to bring to light the regional contextual challenges that IE researchers encounter, and create a space where more students from diverse communities would be encouraged to join the ISIE community. On March 28th, 2025, the series kicked-off with the session “Circular Economy Perspectives from Central and South America” with the speaker Dr. Glenn Aguilar and Prof. Sérgio A. Pacca. On June 12th, 2025, a session with perspectives from India was hosted with the speakers Dr. Richa Singh and Prof. Pradip Kalbar.
- **IE Website:** A full map of the website and a first mockup were developed, to establish the first content the website will host and its possible graphics. The SCB applied for a member proposal in 2025 and won some funds to promote a writing competition, which aimed at engaging the ISIE community to write entries for the website, based on the topics listed on the website map that was developed by the board. Nine members applied to participate in the competition, and three students were awarded during the closing ceremony at the 12th ISIE conference.

We will be offering them the chance to work with a web designer to complete their text with illustrations over the upcoming year.

Upcoming activities in 2026

- **IE Website:** Building on last year's work, this year's efforts will focus on creating a first beta version of the website which will include the content that was created by the writing competition awardees. The SCB will also focus on planning for website future promotion strategy, especially reaching out to students outside the ISIE community, to encourage new potential enrollments in IE related fields. Furthermore, we plan to organize a second writing competition to expand on content creation.
- **Social media:** The number of active members in SCB LinkedIn Group increased from 67 to 362 from 2025 to 2026. The SCB will keep using this platform to promote upcoming activities to further strengthen the student chapter community. We are considering opportunities to make the group easier to reach for non-members who want to learn more about the SCB activities.
- **Webinars:** The SCB will continue to organize webinars with professionals from the field of industrial ecology or other relevant fields, aiming to provide insights into different careers, state of the art research or other relevant topics.
- **Networking:** Continuing our successful tradition, we plan to hold two virtual networking events for students, scheduled for the Spring and Autumn semesters in 2026. The SCB also plans to collaborate with the Career Committee to organize a "Buddy Program." This initiative aims to connect students with faculty members to foster new professional relationships and mentorship opportunities within the community.
- **Enhancing the ISIE Student Board Webpage:** We plan to further develop the student board section of the ISIE website by expanding available resources, regularly publishing student-focused events, and highlighting student members. In addition, we aim to launch a student forum to create a more interactive space where members can easily access resources, exchange ideas, and connect with peers.
- **Highlighting Student Member Research and Career Journeys:** We aim to increase the visibility of student members' research and professional development by showcasing their latest publications and personal academic journeys. Over the coming year, we will invite members to share their recent work along with reflections on their research and career paths, fostering knowledge exchange and peer inspiration within the ISIE student community.



Photo 1. Some members of the Student Chapter Board at the 12th ISIE conference in Singapore, in June 2025. Ursula Cardenas, Xiangjie Chen, Federica Geremicca, Jakob Napiontek, Anna Christy, Catrin Böcher, Sowmya Ravisandiran, Jiajia Li (L to R).

SECTION BOARD MEMBERS

- Co-Chair **Mengqing Kan**
- Co-Chair **Federica Geremicca**
- Board member **Sowmya Ravisandiran**
- Board member **Xiangjie Chen**
- Board member **Tima Gogiyev**
- Board member **Tomomi Shoda**
- Board member **Lois Lozach**
- Board member **Wen Qi**
- Board member **Marceau Cormery**
- Board member **Yiming Liu**

SUSTAINABLE CIRCULAR ECONOMY SECTION

The Sustainable Circular Economy section (SCE) was first founded at the end of 2022. As of the 5th of February 2026, the section has 527 members. The current founding board is now approaching its last year of service to the community, with elections for all board positions scheduled for winter 2026/27.

The vision of the SCE section is to facilitate scientifically grounded discussions and action on the concept of the circular economy to meet the grand sustainability challenges of our time. In particular, we aim at contributing to the development of circular economy research that addresses all dimensions of sustainability in a systemic manner – environmental, economic and social. To fulfill this vision, the section draws on the systems-based approaches and methods of industrial ecology and beyond. The aim is to provide inter- and transdisciplinary assessments of the potentials, synergies and trade-offs for a sustainable circular economy.

In 2025 a range of activities were pursued by the SCE board:

Several SCE board members served as reviewers for the 2025 ISIE Conference in Singapore. Furthermore, Chika Aoki-Suzuki was invited as a discussant at two special sessions on the circular economy at the 2025 ISIE Conference, specifically by the public Policy Section on “What can Industrial Ecology do for Public Policy: the Case of Plastic Waste”, as well as for the special session:

The current founding board members of the SCE section are:

Dominik Wiedenhofer, co-chair	University of Natural Resources and Life Sciences, Vienna	Austria
Magnus Fröhling, co-chair	Technical University Munich	Germany
Sina Leipold, member	UFZ Leipzig	Germany
Bhavik Bakshi, member	Ohio State University	United States of America
Hannah Wang, member	Yale University	United States of America
Xin Tong, member	Peking University	China
Chika Aoki-Suzuki, member	Institute of Global Environmental Studies	Japan

“Circular Economy in the Global South: Learning from Existing Research, and Co-creating a Comprehensive Research Agenda”.

Secondly, the section website was overhauled and expanded, to provide more information and further links hopefully useful to its members and any other interested party. Furthermore, the by-laws of the section were updated to reflect improvements to the ISIE’s overall self-organization.

Thirdly, several scientific collaborations among the board members were either finished in 2025, or are being finalized for submission in 2026. This includes, for example, a review on “The Circular Economy and Climate Change: The State of National and Global Evidence on Mitigation Potential” by Wiedenhofer et al. (2025) in the highly prolific journal *Annual Reviews of the Environment and Resources*. <https://doi.org/10.1146/annurev-environ-111523-102441>.

Ongoing scientific collaborations include an effort led by Prof. Pauliuk bridging the SCE and the SEM sections as well as the wider ISIE community on a review paper with the current working title “Stylized Facts for a Sustainable Circular Economy”, to be submitted to the *JIE* in 2026. Furthermore, the SCE board is also working on a perspective article asking “When is the circular economy a good idea?”.

Fourth, the SCE-Chair Dominik Wiedenhofer was on paternity leave for most of 2025 with his second son. During this time, he experienced and enjoyed the circle of life and the daily reproductive care work required to foster high wellbeing and a healthy metabolism.

For 2026, the major focus of the board is to provide meeting opportunities for its members at the ISIE real-world and online events, and to ensure an orderly transition to the newly voted-in board for 2027. In particular we plan

- A section meeting during the ISIE-SEM meeting in Cambridge (July 6-8)
- Organize sessions at the ISIE online day
- Organize special sessions and meeting opportunities at ISIE-related scientific conferences, e.g. GRC-ISIE, EcoBalance, Future Earth, ...
- Initiation of a section newsletter
- A compilation of teaching materials and policy documents on the Circular Economy

SECTION BOARD MEMBERS

Co-Chair **Dominik Wiedenhofer**

Co-Chair **Magnus Fröhling**

Board member **Bhavik Bakshi**

Board member **Chika AOKI-SUZUKI**

Board member **Hannah Wang**

Board member **Sina Leipold**

Board member **Xin Tong**

SUSTAINABLE URBAN SYSTEMS SECTION

The Sustainable Urban System (SUS) Section engages practitioners and researchers by providing a platform for multidisciplinary systems and approaches to understand, plan, build, and manage sustainable, healthy, and resilient cities. As of early January 2026, the section had 420 members, slightly down from 446 in 2025. The highlighted SUS activities in 2025 include:

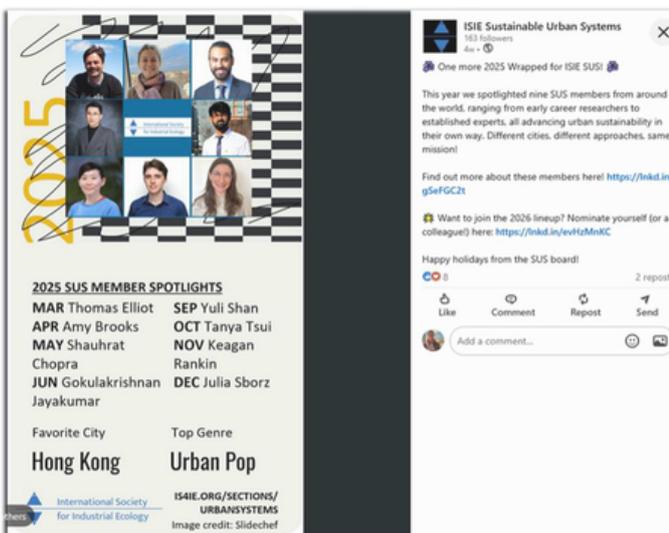
- **Increased Social/Media Presence**
 - 65 posts to group page (~5 posts per month), garnering over 22,000 views
 - 41 new group followers in 2025, reaching a total of 120 followers
 - Created new 'company' page in December to broaden media reach
 - Spotlights 9 SUS members (4 students, 3 early career scholars, and 2 mid-career scholars) and publications from members totaling 33 papers published in JIE by 32 members of SUS.

- **ISIE 2025 Special Session: Navigating the Socio-ecological tipping Points in Urban Transitions** (chaired by Shauhrat Chopra of SUS)
 - Two Panelists: Anu Ramaswami and Andrea Hicks
 - Well attended



- **ISIE 2025 Special Session: Quo Vadis NBS? State of the art, research outlook, and policy relevance of Nature-Based Solutions in the Urban Metabolism** (chaired by Daniela Perrotti from University of Louvain, Zhi Cao from Nankai University, and Kangkang Tong from Shanghai Jiao Tong University of SUS)

- Presentations:
 - Opportunities and Challenges of Nature-Based Solutions as a new frontier in Urban Metabolism research. Evidence from a fast-growing literature base. Daniela Perrotti (University of Louvain, Belgium).



- Nature-Based Solutions for Urban Carbon Neutrality in Developing Countries: Observations and Reflections. Kangkang Tong (Shanghai Jiao Tong University, China).
- Urban green spaces in combating urban heat islands: A review of data acquisition, data fusion, and modelling approaches. Zijin Guo, Chunli Chu, Zhi Cao (Nankai University, China).
- Green space for sustainable and livable cities in Ghana: Maintenance culture, theory of planned behaviour, and place-keeping. Michael Adutwum Osei, Sandra Ama Yalley, Ari Krisna Mawira Mawira Tarigan (University of Stavanger, Norway).
- Evaluating Nature-Based Solutions through Political-Industrial Ecology: Lessons from Energy and Agriculture. Jennifer Baka, Christine Costello (Pennsylvania State University, USA).

- Well-attended
- Prof. Perrotti is drafting a research article now.



- **ISIE 2025 SUS Meeting**

- ~20 attendees
- Engagement from some of the originators of the SUS section (e.g., Xumei Bai and Anu Ramaswami)
- Attained our 8th Board Member (Tanya Tsui)



- **IE Day events:**

- Industrial Ecology approaches used in the emerging field of Positive Tipping Points, chaired by Thomas Elliot (Aalborg University) of SUS, and Claudia R. Binder (EPFL)
 - 4 speakers: Helmut Haberl, Thomas Elliot, Jaïr K.E.K. Campfens, and Harald Dessing

Industrial Ecology approaches used in the emerging field of Positive Tipping Points

Chaired by Thomas Elliot (Aalborg University) and Claudia R. Binder (EPFL)

The hour-long session explored the various ways industrial ecologists are applying their methods to understand Positive Tipping Points. The PTP field deals with the spreading dynamics of bottom-up actions, especially addressing climate change, including the diffusion and adoption of technology that replaces more emission-intensive technologies (e.g. solar power and electric vehicles), and consumer action such as plant-based food regimes and flight avoidance. This session hosted four speakers developing quantitative industrial ecology approaches to estimate the influence that PTPs may have on Earth systems, such as the climate. The presentations were followed by a short discussion with participants. The event was recorded and can be viewed on [YouTube](#).

[Helmut Haberl](#), BOKU: *"Investigating and modelling tipping dynamics in social metabolism: conceptual considerations on resilience and malleability"*

[Thomas Elliot](#), Aalborg University: *"Dynamic System Strategies for Climate Social Tipping Points"*

[Jaïr K.E.K. Campfens](#), EPFL: *"Initiating social tipping dynamics in energy transitions: a novel analytical approach for exploring feedback loops and intervention points"*

[Harald Dessing](#), Empa: *"Solar basic service: an idea for accelerating the energy transition"*

- Urban Consumption: New Theories, Models, and Methods, chaired by Benjamin Goldstein (University of Michigan) of SUS and Sybil Derrible (University of Illinois Chicago; Co-organizer)
 - 6 speakers: Benjamin Goldstein, Sybil Derrible, Hua Cai, Brandon Finn, John Mulrow, and Joe Bozeman III

- Urban Consumption: New Theories, Models, and Methods, chaired by Benjamin Goldstein (University of Michigan) of SUS and Sybil Derrible (University of Illinois Chicago; Co-organizer)
 - 6 speakers: Benjamin Goldstein, Sybil Derrible, Hua Cai, Brandon Finn, John Mulrow, and Joe Bozeman III

Urban Consumption: New Theories, Models, and Methods

Benjamin Goldstein – University of Michigan **S.U.R.F. LAB**
Urban Symbiosis - The latent potential of grassroots material circularity in cities

Sybil Derrible – University of Illinois Chicago **Complex and Sustainable Urban Networks (CSUN) Laboratory**
Causality in Urban Metabolism: Better Understanding How We Consume Energy and Resources

Hua Cai – Purdue University **uSMART**
Urban Consumption in Transition: Sustainability Trade-offs of Shared Mobility, Electrification, and AI

Brandon Finn – University of Michigan
Informal Sustainability

John Mulrow – Degrowth Institute
Degrowth is Sustainable Consumption at a Global Scale

Joe Bozeman III – Georgia Tech **SEEEL**
Dancing with Justice and Degrowth

International Society for Industrial Ecology
Science for sustainability and circular economy **Sustainable Urban Systems**

- [Sustainable Production and Consumption Special Issue on Sustainable Urban Transitions](#) (Edited by: Kangkang Tong, Yuli Shan, Benjamin Goldstein, Thomas Elliot, Amy Brooks, all from SUS)
 - Submission deadline: Mar 15, 2026

Sustainable Production and Consumption

22.5 CiteScore | 9.6 Impact Factor

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Call for papers

30 June 2025
Sustainable Urban Transitions
Submission deadline: 15 March 2026

- **New Mentor Program** (Tanya Tsui, Leiden University)
 - Had 7 sign-ups (5 mentees and 2 mentors)
 - Program continuing to develop with potential incentive for mentors



SUS Board Composition

The SUS Section Board's last election cycle was in 2023 and will reach its end-of-term in 2027. We conducted an election in November of 2023 to populate the new Board and recently acquired our 8th member off election cycle.

The current Board includes (2024-2026):

- Co-Chair/Treasurer: Kangkang "KK" Tong, Shanghai Jiao Tong University
- Co-Chair/Secretary: Joe F. Bozeman III, Georgia Institute of Technology
- Research/Awards Coordinator: Shauhrat Chopra, City University of Hong Kong
- Web Editor and Communication Strategist: Yuli Shan, University of Birmingham
- Co-Liaison with Other ISIE Societies: Benjamin Goldstein, University of Michigan
- Co-Liaison with Other ISIE Societies: Thomas Elliot, Aalborg University
- Emerging Professional: Amy L. Brooks, University of Pittsburgh

- Emerging Professional: Tanya Tsui, Leiden University

Upcoming Plans and Events for 2025:

- Events:
 - Special Issue
 - GRC/GRS SUS Section Meeting
 - SUS meeting at 2025 ISIE
 - Mentor Program Development (potential for ISIE proposal)
 - SUS Award Programming

SECTION BOARD MEMBERS

Co-Chair/Treasurer **Kangkang "KK" Tong**

Co-Chair/Secretary **Joe Bozeman III**

Research/Awards Coordinator **Shauhrat Chopra**

Web Editor and Communication Strategist **Yuli Shan**

Co-Liaison with Other ISIE Societies **Benjamin Goldstein**

Co-Liaison with Other ISIE Societies **Thomas Elliot**

Emerging Professional Representative **Amy L. Brooks**

PUBLIC POLICY SECTION

1. Overview

The Public Policy Section was established in 2024 to strengthen the connection between industrial ecology research and real-world policymaking with the following founding board members. As one of the subject sections within ISIE, it provides a platform for researchers, practitioners, and policymakers to engage in interdisciplinary dialogue and explore how industrial ecology methods can inform sustainable public policy. The section has the following objectives:

1. Support policy engagement through member training (e.g., writing policy briefs) and accessible resources (e.g., templates).
2. Help members identify relevant policy actors and understand the processes for influencing the decision-making.
3. Train members in concepts and theories of the policy process, methods of policy analysis, and the science-policy interface.
4. Enable engagement between section members through (online) events and platforms for sharing and connecting.
5. Recognize and promote the policy work of industrial ecologists to empower them and enhance the influence of our field.

Activities of the Section include workshops, webinars, policy briefs, and partnerships with governmental and non-governmental organizations to support and engage with a diverse community of over 120 members from around the world, including academics, students, and practitioners. The Public Policy Section plays an important role in advancing ISIE's mission by bridging industrial ecology research with public policy discourse and practice, enabling members to contribute to policy innovation and sustainable governance globally.



2. Membership

The Public Policy section consists of a diverse group of 128 (and counting) researchers, practitioners, and students from academic and governmental institutions worldwide. The section's membership is geographically diverse, featuring strong representation from institutions in Europe, North America, and emerging research hubs in South America and Asia.



3. Expert Panel during the ISIE 2025 Singapore Conference

The Section organized a panel titled "What can Industrial Ecology do for Public Policy: the Case of Plastic Waste," followed by a section member meeting during the 2025 ISIE Conference in Singapore. Organised by the leadership of the Section, the panel session brought together experts from institutions in Singapore to highlight best practices for evidence-based policymaking in South-East Asia. The discussion featured diverse perspectives, including The Ocean Cleanup's work on plastic recovery in rivers, Nanyang Technological University's research on bioengineered plastic alternatives, and life-cycle assessments of plastic flows, all aimed at identifying the most effective policy interventions and stakeholder responsibilities. The panel engaged over 40 participants in interactive discussions.



4. Section Member Meeting during the ISIE 2025 Singapore Conference

The member meeting during the ISIE 2025 Singapore Conference was focused on establishing the Section's strategy for bridging the gap between research and governance. Around 50 members participated in the meeting. Key discussion themes centered on building strategic capacity through specialized training in communication, such as crafting concise policy briefs, using AI for synthesis, and developing professional presentation skills, to ensure academic research is timely and impactful for decision-makers. Members emphasized the need for robust stakeholder analyses across local, national, and international levels, alongside the creation of platforms for knowledge exchange, networking with policymakers, and peer-to-peer mentorship.

Additionally, the groups highlighted the importance of increasing the visibility and academic recognition of policy engagement, advocating for it to be valued as essential scholarly work that directly addresses pressing environmental and socio-economic challenges. Based on the member brainstorm, a key outcome was the proposal to organize a session focused on policy briefs for the 2025 IE Online Day.

5. Social Dinner with Section Members

The first social event of the policy section happened during the ISIE 2025 conference in Singapore, where section members went for dinner at a local Hawker centre after the section meeting. We had plenty of good food and drinks to choose from (which is what hawker centres are all about) and live music to enjoy. Above all, members enjoyed getting to know each other and sharing ideas about the future of industrial ecology and policy.



6. The 2025 IE Online Day Session

The Section hosted a session titled "From Evidence to Influence: Writing Policy Briefs in Industrial Ecology," during the IE Online Day on November 21, 2025. The session is designed to help the industrial ecology community translate cutting-edge research into real-world environmental impact. Hosted by the Public Policy Section in collaboration with the Policy Impact Unit at University College London, the workshop provided practical guidance on the purpose and creation of policy briefs, teaching participants how to distill complex data into accessible messages for decision-makers. The session explored first-hand case studies, what makes a brief effective, and the challenges of the writing process, which is followed by interactive Q&A. The session was attended by over 50 participants around the world.

7. Online Resources

The Public Policy Section developed a range of online resources to support engagement with sustainability policy, including downloadable materials on topics such as circular economy

policy, human behavior in modeling, economic perspectives on industrial ecology, and common recycling misconceptions. These resources are freely available on the Section's website for use in research, teaching, and policy engagement. In addition, the Section will publish a blog post based on its IE Online Day 2025 session. More blog posts will follow based on future events and emerging topics of interest to the community.

8. Outlook for 2026

The Section will organize a special session on "Influencing Policy by Integrating MFA and Social Science" at the 2026 ISIE Socio-Economic Metabolism Conference in Cambridge, UK, which will be held July '26. The proposed session aims to strengthen the real-world policy impact of industrial ecology research by bringing together an MFA scholar, a social science or legal scholar, and a policy-maker in a moderated, interactive panel. Structured around the conference themes of agency, urgency, and equity, the session examines how integrating MFA with social science perspectives can improve science-policy interactions, address mismatches between research and political time horizons, and navigate normative questions around the distribution of benefits, burdens, and risks in sustainability transitions.

The Section warmly welcomes ideas and contributions from the community to help shape future activities.

SECTION BOARD MEMBERS

Chair **Stijn van Ewijk**

Vice-Chair **Weiwei Mo**

Treasurer **Ella Jennings**

Secretary **Harri Kalimo**

Member **Antti Jukka**

Member **Ryu Koide**

Member **Reid Lifset**

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