MINUTES
Separations Division Online Planning Meeting

Wednesday, May 11, 2022 – 4:00pm – 5:00pm (EST)

Attendance:
Alice He
Seth Huggins
Atanas Serbezov
Caryn Heldt
Dan Summers
Handan Tezel
Tony Cai
Evan Hatakeyama
Bill Phillip
Stefano Brandani

Seth Huggins
Tarun Poddar
Marina Tsianou
Steve Thiel
Paul Scovazzo
Heather Chenette
Jennifer Gomez
Seyi Odueyungbo
Christina Boi
Josh Thompson

Isaac Gamwo
Marina Tsianou
Haiqing Lin
Paul Collins
Christine Duval
Paul Bryan
Jeff McCutcheon

Approval of Minutes from March 11, 2022 (Atanas Serbezov)
A motion to approve the minutes as distributed by e-mail passed by acclamation.

Gerhold Award Process Review (Paul Bryan)
See slides in the Appendix for details.
Paul is stepping down at the end of 2022 as chair of the Gerhold award committee.
Paul provided an overview of the Gerhold award history and administration process.
Action Item: The Executive Committee of the Division needs to identify and appoint a successor to Paul.

Education and Outreach Award Update (All)
One application has been submitted based on the current description of the award that focuses on the development of educational / outreach materials.

The new award description will be introduced for the 2023 award year. Jeff McCutcheon has sent the proposed description to the AIChE Education Division for comments but has not heard back. Steve Thiel offered to facilitate the communication since he is active in the Education Division. It is desirable to have a representative of the Education Division on the award administration committee.

Action Item: Have the new award description in place and officially on the AIChE website prior to the 2022 Annual meeting. Advertise the award at the meeting.
Awards Update (Dan Summers and Haiqing Lin)
See slides in the Appendix for details.
This year the number of Graduate Student Research Award (GSRA) nominations is very small.
In the Membrane area there are only 2 nominations for 3 available awards; it was decided to give out
one GSRA award ($200) and one DB award ($300).

Treasurer’s Update (Tarun Poddar)
See slides in the Appendix for details.

Membership Initiatives (Evan Hatakeyama)
Evan has established contact with AIChE membership services.
There is a push from AIChE to nominate Fellows.
Action Item: Evan will find out the number of AIChE Fellows in the Division.

2022 AIChE Annual Meeting Programming Update (Alice He)
See slides in the Appendix for details.

CTOC Update (Paul Collins)
See slides in the Appendix for details.
Darlene Schuster is the new AIChE CEO and Executive Director.
AIChE encourages Divisions and Forums to update their bylaws every 5 years. The Separations Division
completed an update in 2017.
2022 Virtual Planning Meeting

May 11,
1:00 – 2:00 PM PST
Gerhold Award – Past & Present

Paul F. Bryan

Somewhere in Cyberspace

May 11, 2022
Gerhold Award – 1

• History:
  • Awards Given Annually 1992 – Present
  • 30 Awards given to date (2021)
  • 17 Academics, 9 Industry, 4 Both
  • Award Committee Chairs:
    • G.E. Keller (et al.?) 1992 – 2002
    • P.F. Bryan 2003 – 2022
    • ???? – 2023 - ???

• Process:
  • Nominations due May 1 each year
  • 6-7 Review Panel Members = Chair / 1VC / 2VC / IPV + Past Winners + Non-Voting Committee Chair (+ adjustments as needed for conflicts)
  • Votes counted, Winner announced, Winner speaks at Sep. Div. Dinner
Gerhold Award – 2

• Future:
  • Chair & Process:
    • PFB moving on; new Chair needed
    • Selection of New Chair
    • Defined Duration of Term, if any
    • Changes in Process, if any

• Ongoing Issues:
  • Non-Academic Nominations limited for multiple reasons
  • Many candidates weak or totally lacking in service to the Division (Criterion #3)
  • “Evergreen” Nominations – Some are turning or have turned brown
  • Occasional: Problems forming the Review Panel (conflicted / apathetic / unresponsive)
  • Occasional: Tie-breaking (2 re-votes / tie-breaks in 20 years)
  • Occasional: Pressures from Nominees or Nominators
    • Why Didn’t I / My Nominee Win?
    • Where did I / My Nominee finish in the voting?
    • You must accept this late submission!
Gerhold Award – 3

• **Turnover:**
  • I will handle the process this year, help with turnover next year
  • New Chair can follow along if named **now**
  • Process is now all-electronic and fairly simple
  • Ranking spreadsheet – open for revision by New Chair and/or Division
  • Extensive Record
    • 2000 – 2002/3 (paper; PFB was a Review Panel Member)
    • 2003 – Present (electronic; PFB was Chair; missing 2016 Ranking for some reason)

• **2022 – Non-Academic Year:**
  • 4 Nominees:
Awards Team Update

Dan Summers and Haiqing Lin
Summary of Awards – May 2022

Accomplished

• Award Responsibilities for 2022 Distributed

• Website looks much better

• Honoree for Area 2a given their plaque at the Spring meeting in San Antonio. CV and Photo given to Marina for the Newsletter

• Contacted Fluor for potential GSRA Awards contributions.
Summary of Awards – May 2022

Awards Submitted

- 2 New Founders Awards, 2 New Kunesh Awards, 1 New Innovation Award and 1 Education and Outreach Award submitted

- At least one new Gerhold Award nomination submitted that we know of

- Only 8 GSRA nominations submitted
  - 3 in Distillation (Note: There was a 4th, but the nominee was an undergraduate doing graduate work)
  - 2 in Membranes
  - 2 in Adsorption and Ion Exchange
  - 1 in Bioseparations

- We were very low on GSRA Nominations. Is the award amount too low?
Summary of Awards – May 2022

Completed to date

- All GSRA and New major award submissions acknowledged
- Award committee chairs notified regarding new nomination submissions
- Area chairs given their GSRA nominations for review
- Checked with National AIChE who has (and has not) paid their dues to be eligible for awards.
Summary of Awards – May 2022

Membranes Question

• There are two Awards plus a special DB Award each year. Since there are only two nominations in 2022, do we;
  
  • A.) Give out one $200 dollar Award and the DB Award at $300

Or

• B.) Give out both $200 awards and one of them gets an additional $300 award?
Summary of Awards – May 2022

Minor Issues

1. The GSRA review in Area 2a has a conflict of interest with the chair representing one of the nominees. The vice chair will take over the review committee.

2. One of the GSRA nominators was initially “flagged” as not paid up on their AIChE dues. The issue has been resolved. National only checked for Bruce Eldridge not his official name “R. Bruce Eldridge.”

3. We had two nominations come in that were several days late. One was a Kunesh Award nominee and the other was a GSRA (Area 2b) nominee. We informed the nominators that their submissions will be saved for next year. This is consistent with past practice.
Financial Summary and Updates

Tarun Poddar

May 2022
# Financial Overview for 2021

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Assets on 12/31/2021</td>
<td>82,552.02</td>
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<tr>
<td>Assets on 12/31/2022</td>
<td>90,301.47</td>
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<tr>
<td>Net Change</td>
<td>7,749.45</td>
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<tr>
<td>Total receipts</td>
<td>23,080.66</td>
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<tr>
<td>Total disbursements</td>
<td>15,331.21</td>
</tr>
<tr>
<td>Net earning</td>
<td>7,749.45</td>
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## Receipts & Disbursements Details for 2021

### Receipts

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Dues Payment</td>
<td>6,435</td>
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<tr>
<td>Donations from corporations</td>
<td>6,400.00</td>
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<td>Investment income</td>
<td>7,515.66</td>
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<td>Dinner ticket</td>
<td>2,730</td>
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<tr>
<td><strong>Total Receipts</strong></td>
<td><strong>23,080.66</strong></td>
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### Disbursements

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>Awards</td>
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<tr>
<td>Plaques and related</td>
<td>1,943.50</td>
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<td>Award dinner and related</td>
<td>5,012.90</td>
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<td>Annual meeting audio visual</td>
<td>219.81</td>
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<td>Amex card membership fee</td>
<td>55.00</td>
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<td><strong>Total Disbursements</strong></td>
<td><strong>15,331.21</strong></td>
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</table>
Award Dinner Details for 2021

Ticket sale: 2,730 (39 @ 65/ticket)
Total award dinner related expenses: 5,012.90
Division’s expense: 2,282.90

Award Related Expenses
Dinner expenses for 51 meals + event fee (20%) + gratuity(15%): 4,697.94
Award related printing and shipping: 314.96
Financial Summary Trends

- Historical high yearend balance in 2021
- Previous highest yearend balance was in 2020
• Change in trend after lowest membership dues collected in the last 24 years
• 429 membership
• Record dues collected in 2002, $13560 (904 memberships at the rate of $15/member)
**Investment Income Trend**

**Investment Distribution**

<table>
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<tr>
<th>Year</th>
<th>% in CD</th>
<th>% in AIChe portfolio</th>
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<tr>
<td>Prior 2018</td>
<td>100</td>
<td>0</td>
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<tr>
<td>2018</td>
<td>25</td>
<td>75</td>
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<tr>
<td>2019</td>
<td>75</td>
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<td>2020</td>
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<td>50</td>
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<tr>
<td>2021</td>
<td>25</td>
<td>75</td>
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2022 Annual Meeting Programming Update

Alice He
### Areas

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<tr>
<th>Areas</th>
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<th>2a</th>
<th>2b</th>
<th>2c</th>
<th>2d</th>
<th>2e</th>
<th>2f</th>
<th>2g</th>
<th>2h</th>
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<tbody>
<tr>
<td>Division</td>
<td>Distillation and Absorption</td>
<td>Crystalization &amp; Evaporations</td>
<td>Extraction</td>
<td>Membrane-based Separations</td>
<td>Adsorption &amp; Ion Exchange</td>
<td>Fluid-Particle Separations</td>
<td>Bioseparations</td>
<td>General Topics &amp; Other Methods</td>
<td></td>
</tr>
<tr>
<td>Current Sessions confirmed in the Confex</td>
<td>3 (1p)</td>
<td>1</td>
<td>9</td>
<td>2</td>
<td>17 (1p)</td>
<td>19 (1p)</td>
<td>2</td>
<td>8 (1p)</td>
<td>1 (1p)</td>
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</table>

**A total of 61 sessions including 4 postersessions**

### Areas

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<th>Areas</th>
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<th>2a</th>
<th>2b</th>
<th>2c</th>
<th>2d</th>
<th>2e</th>
<th>2f</th>
<th>2g</th>
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<td>9</td>
<td>2</td>
<td>16 (1p)</td>
<td>13 (1p)</td>
<td>2</td>
<td>8 (1p)</td>
<td>1 (1p)</td>
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</table>

**A total of 54 sessions including 4 postersessions**
Important Timeline for 2022 Annual Meeting Program

Alice He
### 7. Important Timeline for 2022 Annual Meeting Program

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>Monday, February 28, 2022</td>
<td>Session Chairs finalized in Confex</td>
</tr>
<tr>
<td>Monday, April 11, 2022</td>
<td>Call for Abstracts Closes</td>
</tr>
<tr>
<td>Monday, May 16, 2022</td>
<td>Abstract Review Completed, Send in Scheduling Requests</td>
</tr>
<tr>
<td>Monday, June 13, 2022</td>
<td>Draft Program Available for Review</td>
</tr>
<tr>
<td>Monday, June 20, 2022</td>
<td>Draft Program Changes due back from Chairs</td>
</tr>
<tr>
<td>Thursday, June 30, 2022</td>
<td>All Invited Session Information Finalized and in Confex</td>
</tr>
<tr>
<td>Sunday, July 31, 2022</td>
<td>Division/Forum Award Winner Information Due</td>
</tr>
</tbody>
</table>
Committee Members

• Phil Westmoreland: CBE Dept. NC State University
• Dale Keairns: Deloitte Consulting LLP
• Kim Ogden: ChE Dept. Head, University of Arizona
• Otis Shelton: Retired-Praxair
• Henry T. Kohlbrand: Principal of HT Consulting
• Chair: Christine Grant: AIChE President (NC State University)
• Vice-Chair: Deb Grubbe: AIChE Past President (President of Operations and Safety Solutions, LLC.)
Search Activity Timeline

Notification & Organization Processes (March - June, 2021)
Early Stage Planning & Board Execution (July – Sept)
Early Search Firm (H&S) Activities (Oct – Nov)
Detailed Search Activities & Interviews (Dec – March, 2022)
Transition & Forward Activities (April – Nov)
Search Summary

Search Statistics

- H&S entered the market in November 2021. The Search Committee met first round candidates in early February 2022 by video conference and second round candidates in early March 2022 in person in Heidrick & Struggles offices in New York City.
- H&S reviewed over 100 potential candidates and contacted and assessed 41 of these individuals according to criteria agreed upon with Search Committee.
- H&S fully assessed 19 candidates from the corporate, public/not-for-profit/NGO, and academia sectors.
- Of the 19 candidates vetted by H&S, 6 (31.6%) were diverse (2 ethnically diverse, 4 gender diverse).
- 7 Shortlist candidates were invited to interview with the Search Committee (Diversity on following page)
- The Search Committee narrowed this down to 3 Finalists, but one withdrew from the process.
- 2 Finalists were interviewed in person by the Search Committee and the Committee reached a unanimous consensus on one candidate to recommend to the Board.

1 Recommendation
The Board of Directors of AIChE has appointed Darlene S. Schuster as the chemical engineering organization's new CEO and Executive Director, effective April 25, 2022.
CTOC – Division & Forum Funds, Earnings Options & Information

April 9, 2022
Earnings on Fund Balance

For simplicity, the division or forum will elect prior to December 31 each year whether to accept the results of AIChe’s investment portfolio or the one-year CD rate as published by Citibank for the following year’s earnings. The division or forum may divide their funds between these two alternatives at its own discretion. The decisions can be changed annually. (Please note that returns on investments can be positive or negative, so there is a potential for the fund balance to decrease.) For those divisions or forums that have elected to use the one-year CD rate, earnings on the fund balance will be reflected in the financial statements in March, June, September, and December. For divisions or forums using the rate of return from AIChe’s investment portfolio, a one-time adjustment will be reflected in the financial statements at the end of each year. Appreciation or depreciation will be based on the average of the monthly fund balances.
13 of 23 D&F take the interest rate from a CD; 3 take AIChE rate

2020:
- CD rate = 0.6%; AIChE earnings = 9.86%
- $39K of D&F interest would have been $104K in 2020

In 2021: AIChE “permanent” fund delivered an 11.8% return. CD rate remained at 0.6%.

Last 10 years:
- 5 years of double-digit returns
- 2 years of negative returns
- Return over the period almost 8.7%
Historical Growth Comparison

Source: Bankrate National Survey and AIChE calendar year returns; for illustrative purposes only
CD Rate pegged to the Synchrony Bank 12-month CD

10-Year Growth of $50 Thousand Dollars

<table>
<thead>
<tr>
<th>Index/Composite</th>
<th>Annualized Total Return</th>
<th>Value of $50 Thousand</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Year CD</td>
<td>0.40%</td>
<td>$52,061</td>
</tr>
<tr>
<td>AIChE Combined Historical</td>
<td>8.35%</td>
<td>$111,540</td>
</tr>
</tbody>
</table>

Growth of $50 Thousand Dollars
Did you know that some Divisions have 10 Fellow Members or Less?

Who can you nominate for Fellow from your Division this year?

Check the Fellows Page for Video Directions and the Nomination Packet
Membership Committee
Led by Kim Ogden, AIChE Past President

- **Main Focus:** member value and ensuring we’re communicating AIChE effectively

- Goal for 2021:
  - Completed brainstorming benefits, ideas for engagement & communications to 3 targeted audiences
  - Recovery from Covid – ex: near retirees with the great resignation

- Goal for 2022:
  1. Implement marketing & communications plans for the following:
     - Near – Retirees
     - Student Members transitioning to Young Professional members
     - Individually Sponsored Corporate Memberships
  2. Re-evaluate membership models for 2024 implementation while research and gather data from the other society dues shifts (from Blue Ribbon Task Force from 2019)
  3. Research and further develop our list of out of the box ideas
Community Counts

- Steady – State on division membership numbers with incremental increases for 2022 thus far
- Achieved increased technical content and engagement in division webinars. Along with success in opting in more members for email
- Goal for 2022:
  - Continuing to provide enhanced customer focus and curated technical content while increasing communications and membership count
D&F Bylaws Best Practices Task Force
2022 Goals

Early 2022 Goals

- Submit the revised Division Model Bylaws, Forum Bylaws Template, and D&F Bylaws: Revision Procedures and Review Rubrics documents to CTOC for final approval
  - Revise the Forum Bylaws Template based on the revisions made to the Division Bylaws Template
  - Include IDEAL checklist elements in documents
  - Add a one-page how-to revise bylaws document (e.g., Gantt chart/flow chart) with steps/timeline/contact info.
- Roll out the new documents to CDFO and encourage their use
  - Present new documents at CDFO meeting (emphasize that they do not need to immediately revise their bylaws)
  - Post on CDFO website and CTOC document storage
- Create a system and process to initiate and track D&F Bylaws reviews on 5-year cycles
  - Reach out to Division & Forum officers to let them know that we are making a schedule
  - Liaisons: Send most recent bylaws and date of last update for each Division & Forum

Late 2022 Goals (Stretch Goals)

- Update relevant sections of the D&F Officers Resource Guide and CDFO website
  - Include “Guidance on Awards” section
  - NOTE: D&F Officers Resource Guide would probably benefit from a comprehensive review / revision
- Review / revise the CTOC Bylaw