A Letter From the CEO

To say that 2020 was a most unusual year is an understatement. Yet it sets the backdrop for the Global Aquaculture Alliance’s work. Working remotely afforded us time to focus on our mission. Our achievements and aspirations are represented in this annual report, and they would have been commendable in a normal year. But they are even more commendable considering the restrictions imposed on us by COVID-19. What’s most impressive is the resilience of the women and men within our organization, as they have adapted to “the new normal.” Well done.

What we would like to share with you now are our aspirations for 2021 and beyond. The primary objective is to navigate the coronavirus pandemic so that we can move on to “the next normal” in operating our businesses. We will never fully return to the way things were prior to the pandemic. Technology—whether for communicating, auditing or tracing seafood through supply chains—will assume a greater role for us as we strive to realize our vision. Our mission will be reflected through the transition to the Global Seafood Alliance. Our assurances for environmental responsibility, social accountability and worker voice, food safety, and animal health and welfare are expanding to include fishing vessel standards that link well-managed fisheries to our processing plant standards to the marketplaces of the world. Our goal is to expand the supplies of responsibly produced seafood around the world.

We also aspire to do more in addressing the United Nations’ Sustainable Development Goals (SGDs). We all are impacting some or most of these 17 SDGs positively. Yet for us we must measure ourselves against these goals and with laser focus see that our work with advocacy, education and certification is making a positive difference, and to demonstrate that work clearly. For us, the SDGs are the standards that aspire us to do what we do.

I am incredibly proud of my GAA associates for their achievements in 2020. We should also be proud of the women and men in the industry who surmounted the challenges of 2020 with courage and commitment. Just think what we can achieve in 2021 and beyond with that same professionalism and passion. This is a great opportunity for us to live up to our aspirations for a healthy global society, where all 17 SDGs are consistently being addressed.

Wally Stevens
CEO
Global Aquaculture Alliance
Our Vision

A world that embraces and enables the role of responsibly farmed seafood in meeting global nutrition needs.

We do this by encouraging innovation on a global scale; by incentivizing producers to adopt a rigorous set of best practices; by building meaningful partnerships with academic institutions, governments and non-governmental organizations recognized as worldwide leaders in environmental and social responsibility; and by providing educational resources for all stakeholders, large and small. We are also committed to addressing the challenges highlighted by the UN Sustainable Development Goals (SDGs). Keep an eye out for how our work contributes to these goals throughout this report.
2020  |  At a Glance

**JANUARY**
- GAA hosts "Come Together: Uniting the Wild and Farmed Seafood Sectors"

**FEBRUARY**
- GAA publishes 2019 annual report
- GAA Academy launches in-pond raceway system (IPRS) course

**MARCH**
- BAP releases spotlight video featuring Ideal Fish, a BAP-certified branzino producer
- Seiyu becomes first retailer in Japan to market BAP seafood

**APRIL**
- Scottish Salmon Company becomes first in Europe to earn four-star BAP status
- Chinese restaurant chain Bantianyao commits to sourcing seafood from BAP-certified producers
- Seafarms Group Ltd. becomes first Australian prawn company to achieve four-star BAP certification
- Remote audit pilots launched for BAP-certified producers

**MAY**
- GAA publishes results of Open Philanthropy-funded animal welfare study

**JUNE**
- BAP releases new Feed Mill Standard
- Deyan Aquatic Products & Food Co. Ltd. becomes world’s first to offer two-star BAP crayfish
- China-based supermarket chain Beiguo commits to sourcing seafood from BAP-certified producers
- Global Seafood Assurances (GSA) takes ownership of the Responsible Fishing Vessel Standard (RFVS)
2020 | At a Glance

**JULY**
- China-based e-commerce company Benlai Group commits to sourcing seafood from BAP-certified producers
- GAA creates COVID-19 guidance document for seafood processing facilities
- Four new members appointed to GAA’s Standard Oversight Committee (SOC)

**AUGUST**
- GAA successfully completes the pilot phase for remote auditing of farms, hatcheries and feed mills

**SEPTEMBER**
- Kvarøy Fiskeoppdrett becomes Norway’s first salmon farm to earn BAP certification

**OCTOBER**
- GAA hosts first-ever virtual GOAL conference
- Simão Zacarias of University of Stirling wins Global Aquaculture Innovation Award
- GAA and BAP launch Instagram influencer campaign for U.S. National Seafood Month
- East Coast Seafood becomes first company to certify facilities to BAP Chain of Custody Standard

**NOVEMBER**
- GAA relaunches strategic partnership program
- New edition of BAP Seafood Processing Standard (Issue 5.1) released
- Mercadona becomes first Spain-based retailer to add BAP to its farmed seafood sourcing policy
- GAA releases latest GAA Film, “The Diver”
Still from GAA’s latest film, The Diver, about the story of Ulises, a sea urchin diver, as he navigates family, a changing climate and the seafood industry.
Membership Highlights

In 2020, our members were not only the backbone of our organization, but of the seafood industry as a whole. In a year where priorities shifted and plans changed, we can’t thank our members enough for their support.

With an intention to embrace the full global aquaculture community, we relaunched our strategic partnership program in September. By the end of the year, we garnered 45 member-based associations from around the world to join the initiative.

To show our gratitude for continuing to support our efforts to promote responsible aquaculture practices, we expanded member benefits and opened up our first-ever virtual GOAL conference to all of our members.

2020 PAYING MEMBERS:

<table>
<thead>
<tr>
<th>INDIVIDUAL MEMBERS</th>
<th>CORPORATE MEMBERS</th>
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</thead>
<tbody>
<tr>
<td>309</td>
<td>57</td>
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We joined the GAA in January of 2019 as a way to expand our connections within the aquaculture industry as well as use it as a tool for information sharing. Not only are we able to learn more about aquaculture but we can also share our research and spread knowledge on aquaponics.

GAA is a great organization working to develop aquaculture around the world. I have enjoyed and benefited from the information GAA sends out and look forward to learning more and continuing my membership for many years into the future.

Check out more member testimonials on social media with #ofFISHalmember!
We Appreciate Your Membership

To show our appreciation for your support, GAA opened last year’s virtual GOAL conference to all GAA individual and corporate members, GAA strategic partners, and Best Aquaculture Practices producers and endorsers.

Your support — as well as the support of our sponsors — allows us to continue to act as a voice for responsible aquaculture through pre-competitive activities such as GOAL. A more informed, better educated aquaculture community benefits us all.
Communications and Collaboration

Media Monitoring & Outreach
In its second year, GAA’s media and monitoring program continued to act as a voice for responsible aquaculture worldwide, proactively publishing content positioning aquaculture in a positive light and reacting to misinformation in the mainstream press. GAA and its affiliated brands garnered 1,564 media mentions and 6.2 billion impressions in 2020.

Aquademia Podcast
Aquademia is the world’s leading seafood podcast, offering fresh takes from passionate staff members and their guests from around the world. Everyone from seafood professionals and environmental scientists to chefs and curious consumers should download and listen. Available on six major podcast platforms.

#EatSeafoodAmerica
The #EatSeafoodAmerica campaign is a cross-industry initiative to encourage seafood consumption among every day grocery shoppers. Spearheaded by Seafood Nutrition Partnership, GAA and BAP partnered with SNP and dozens of other organizations to help spread the word across social media.

Global Aquaculture Advocate
For 23 years, the Global Aquaculture Advocate has supported GAA’s mission of responsible aquaculture with news features and technical articles documenting the evolution of aquaculture. Beginning in September 2019, access to Advocate articles no longer required a log-in, and since then traffic mushroomed to more than 100,000 pageviews per month by the end of 2020.

Webinars and Roundtables
GAA and BAP hosted a number of roundtables and webinars throughout 2020 to initiate discussion and educate audiences on a variety of topics. This included two roundtables, one on uniting the farmed and wild seafood sectors as well as one that brought together members of the industry to discuss how the seafood supply chain was responding to the COVID-19 pandemic.
Aquaculture 101 is a campaign run by the Global Aquaculture Alliance to educate the public about the basics of aquaculture and to disseminate information in an easily understandable way. The campaign dispels myths and gives facts about the promising future of the industry. In 2020, the focus of Aquaculture 101 was on the alignment of aquaculture with the United Nations Sustainable Development Goals (SDGs). Each month GAA delved into one of the SDGs and explore how GAA’s work in advocacy, education and certification addressed that specific goal.

Check out the hashtag #Aquaculture101 on social media for more information.
GOAL 2020 Goes Virtual

GAA’s signature GOAL conference began its evolution in 2020 with its first-ever virtual event.

Held from Oct. 5 to 8, the virtual event featured 10 sessions and 50 speakers, about two-thirds of which spoke at GOAL for the first time. The virtual event attracted about 800 active attendees. In 2021, GOAL is featuring a hybrid experience with a series of virtual events leading up to an in-person event in Seattle in October.
Global Aquaculture Innovation Award

In 2012, GAA established the competition to recognize individuals and companies finding new solutions to the key challenges facing aquaculture.

Three Finalists

The three finalists of the eighth annual Global Aquaculture Innovation Award were Mark Luecke of Prairie AquaTech, Simão Zacarias of the University of Stirling and Pablo Berner of Nuseed. By audience vote at the first-ever virtual GOAL conference in October, Zacarias was selected as the winner for his work on the shrimp-hatchery practice of unilateral eyestalk ablation.

Simão Zacarias

Zacarias’ research debunked the conventional notion that eyestalk ablation results in higher egg production and showed that it actually escalates disease vulnerability.

Mark Luecke

Prairie AquaTech’s ME-PRO® is a plant-based protein ingredient manufactured in South Dakota that has two primary goals: sustainability and digestibility.

Pablo Berner

Nuseed® uses genetic engineering to turn canola plants into prolific producers of omega-3 oils and other nutritionally important fatty acids.
Growing the Market for Responsible Seafood

**Western Hemisphere**

**PRODUCERS**

**United States**
- BAP releases video featuring Ideal Fish, a BAP-certified RAS branzino farm
- Walmart launches new in-store signage featuring BAP label
- About 75% of the retail market requires BAP and about 70% of foodservice
- The following retail and food service operators became BAP endorsers: Albertsons, Amazon, Kings Food Markets, Nestlé Purina, Sprouts Farmers Market, Target
- Sysco added BAP to their sustainability program
- BAP accepted at many online seafood delivery companies including Fulton Fish Market, Metro Lobster Seafood, Impact Kitchen, and Schwan’s

**Latin America**
- 80 new producers in Latin America were certified in 2020, primarily in Chile, Ecuador and Mexico
- Launched BAP landing page in Spanish

- Chile
  - Nova Austral S.A. attains BAP certification for its salmon farm site

- Colombia
  - About 60 producers are certified in Colombia, mostly tilapia

- Ecuador
  - Santa Priscila, the largest shrimp producer in Latin America, attained BAP 4-star certification

**Endorsers**

**United States**
- Walmart launches new in-store signage featuring BAP label
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*Whether you are on the market or production side of the seafood business, GAA staff work diligently to help you increase your network and provide responsible seafood solutions.*
Growing the Market for Responsible Seafood

**EASTERN HEMISPHERE**

**PRODUCERS**

**UNITED KINGDOM**
- Scottish Salmon Company becomes first in UK and Europe to achieve four-star BAP certification

**NORWAY**
- Kvaerey becomes the first Norwegian salmon company to attain BAP certification

**CHINA**
- Deyan Aquatic Products & Food Co. Ltd. becomes world’s first company to offer two-star BAP crayfish
- BioMar Tongwei (Wuxi) Biotech Co. Ltd. becomes first feed mill in China producing feed for trout and turbots to earn BAP certification
- Xinjiang Tianyuan Organic Agriculture Co. Ltd. earn BAP certification

**AUSTRALIA and NEW ZEALAND**
- Sea Farms Group Ltd. becomes first Australian prawn company to achieve four-star BAP certification
- Approximately 90% of the region’s salmon and shrimp production is BAP certified

**ENDORSERS**

**UNITED KINGDOM**
- 97% of retail market and 55% of foodservice accepts BAP
- Harrods adds BAP to its sourcing policy
- Marrfish becomes a BAP supplier to foodservice

**CHINA**
- The majority of national and international traditional and ecommerce retailers accept BAP
- Shenzhen Pengcheng Marine Products strengthens its commitment to BAP
- Chinese restaurant chain Bantianyao pledges to source seafood from BAP-certified producers
- Shijiazhuang Beiguo Supermarket pledges to source seafood from BAP-certified producers

**JAPAN**
- The majority of the international seafood trading companies recognize and accept BAP
- Selyu becomes first retailer in Japan to market BAP seafood
- Three of the four largest retailers are now accepting BAP certified products

**PAN-EUROPE**
- Auchan adds BAP to its sourcing policy
- Metro launches BAP marketing in five languages

**SPAIN**
- Mercadona becomes first Spain-based retailer to add BAP to its farmed seafood sourcing policy

**AUSTRAILIA and NEW ZEALAND**
- Seafarms Group Ltd. becomes first Australian prawn company to achieve four-star BAP certification
- Approximately 90% of the region’s salmon and shrimp production is BAP certified
BAP Launches Spotlight Video Featuring RAS Producer Ideal Fish

As part of its producer spotlight initiative, in March BAP launched a video featuring BAP-certified producer Ideal Fish. Launched in 2013, Ideal Fish uses a recirculating aquaculture system (RAS) to raise Branzino, or European sea bass. Their 63,000-square-foot facility is located in Waterbury, CT, within close proximity to the major metropolitan U.S. East Coast markets.

The video shines a light on their state-of-the-art RAS technology, their traceability initiatives and why they chose to attain BAP certification. The video premiered on Facebook and was posted on YouTube and BAP’s social media platforms, and received close to 8,000 views. This video is part of a larger initiative by BAP to highlight certified producers and their responsible practices.

ERIC PEDERSON
President and CEO, Ideal Fish

“We were very interested from the beginning of the development of our business plan in becoming BAP certified. It is the gold standard in seafood production verification. It is the way that we can tell our customers that we adhere to the loftiest standards, the most rigorous requirements in terms of the way we conduct our business and the way that we produce our product.”
As a global organization, we recognize the need to provide valuable information and resources about GAA and BAP in native languages. In 2020 we launched two new landing pages in Japanese and Spanish with resources for producers and endorsers, including information about the BAP label and where to find BAP products. The pages are part of a larger campaign to increase brand awareness of the BAP program internationally, and were launched in conjunction with a social media campaign targeting consumers in each region.

**Increasing BAP Brand Awareness**

**Japanese Landing Page**

The most trusted certification for farm-raised seafood

**Spanish Landing Page**

La certificación más confiable para peces y mariscos de origen áculco
Walmart’s Seafood Sustainability Campaign

In 2020, Walmart featured BAP and two other certification programs in a campaign to promote the company’s commitment to source sustainably harvested and farmed seafood.

Launched in early March 2020, the campaign featured point-of-sale signage that used the taglines, “Sustainably Sourced Seafood” and “Our Oceans. Our Responsibility.” The signage was placed in the refrigerated and frozen seafood sections of 1,300 Walmart stores, and included freezer door clings, shelf flags, and sanitation-stand signs.

In support of its sustainable sourcing policy, Walmart has long committed to sourcing seafood that is BAP certified.
Driving Social Change and Improvement in Aquaculture

We worked with KIT Royal Tropical Institute to better understand how BAP social and labor requirements are applied and how they impact practices among producers. The study focused on three countries: Indonesia, Vietnam, and Chile, and included an analysis of audit report results and in-depth interviews with employees throughout the supply chain.

KEY LEARNINGS:

- Found that social and labor practices are continuously monitored and evolving in certified facilities, and that most companies made major changes to comply with the BAP Standard.
- The greatest changes were found in Vietnam and Indonesia.
- Overall, increased attention to due diligence and ensuring compliance, especially through improved monitoring systems, and there is now greater attention for community-farm interaction.
- Workers note clear improvements around wellbeing related to shifts and regulations on workers time – this alleviated stress for employees.
- BAP certification is seen as a long-term investment in economic sustainability and way to demonstrate compliance with key legal frameworks.
- The study found that the certification improved product quality (standards as a whole).
- Certification did not necessarily lead to higher profitability directly but brought a larger market.
- In Vietnam, improved practices perceived to lead to higher staff retention levels and lower occurrence of accidents.
BAP Supporter Kvarøy Arctic:
A Leader in Responsible Salmon Production

What sets Kvarøy Arctic apart?

Kvarøy is a small-to-medium-sized salmon producer, with annual production of around 10,000 metric tons. The company has been 100 percent family owned since the beginning in 1976. Over the years, production changes were made to move toward being more sustainable and producing a more healthy product. Kvarøy does not use any chemicals or antibiotics in its production. No antifouling on its nets, either. Together with BioMar, Kvarøy developed its own feed and a unique model. The fish feed contains natural colorant, only fish oil from cut-offs from Atlantic salmon production, algae from Corbion, krill from Aker BioMarine, cleaned fish oil and fishmeal, and a higher content of omega-3 fatty acids than any conventional feed. Also, the feed has a FIFO ratio of 0.48:1, so it's a net producer of protein. Farming salmon is already a sustainable way of producing food, but there is always room for improvement. The next generation must have the opportunity to do the same, just better.
**BAP Supporter Kvarøy Arctic:**
A Leader in Responsible Salmon Production

**What does it mean to you to be the first BAP-certified salmon producer in Europe?**

For us it means a lot. We have focused on the U.S. market, and BAP is an important standard for many of our customers. And it also shows us that we are doing a lot of things right by adding yet another certification to our list of accomplishments.

**What was your main motivator in choosing to pursue BAP certification?**

The market was the main motivator. Also, we feel that some of the key points in the standard resonate with what we feel is important, including the FIFO ratio and other feed-related matters that other standards do not address. Also, stocking density and use of chemicals we feel is better addressed in the BAP standard.

**How has attaining BAP certification improved your practices?**

It has made us look even deeper into what we do and how we do it. It is always good to get new people to ask questions and provide thoughts that we have not thought about. It helps us move forward.
The program integrity team ensures the robustness and credibility of the BAP standards through quality control, compliance monitoring, and technical expertise.

We work in tandem with the operations and information technology teams to drive continuous improvement in the BAP program and provide in-house support for BAP’s aquaculture producers.
Program Integrity

Remote Audits

In order to continue to deliver the full range of assurances during the COVID-19 pandemic, BAP developed a robust remote auditing solution and conducted more than 700 remote audits across all facility types. We collaborated with our certification bodies, accreditation bodies, and benchmarking organizations to ensure our auditors were well trained to audit remotely and our policies supported producers through the process.

Auditor Training

The Program Integrity team held two remote auditor training courses throughout 2020, which attracted qualified auditors from nearly 20 countries around the world.

Protecting Employees During COVID-19

To help keep employees across the aquaculture production chain healthy during the pandemic, GAA created a guidance for producers that contains best practices to help limit exposure and spread of COVID-19. The objective of the guidance is both to protect employees and reduce the risk of contamination of food products or packaging.

Standards Development

BAP updated requirements in nearly all standards including the Seafood Processing Standard Issue 5.1, Feed Mill Standard Issue 3.0, Mollusk Standard Issue 1.1, and BAP Farm Standard Issue 3.0. This included food safety, environmental, social accountability, animal welfare, and traceability updates.
### BAP Growth

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<thead>
<tr>
<th></th>
<th>TOTALS</th>
<th>TOTAL VOL.</th>
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<tbody>
<tr>
<td>Processing Plants</td>
<td>399</td>
<td>2,633,791 MT</td>
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<tr>
<td>Farms</td>
<td>2,030</td>
<td>2,529,043 MT</td>
</tr>
<tr>
<td>Feed Mills</td>
<td>139</td>
<td>9,110,828 MT</td>
</tr>
<tr>
<td>Hatcheries</td>
<td>299</td>
<td></td>
</tr>
<tr>
<td>Reprocessors</td>
<td>51</td>
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</table>

**Total Producers:**

- Includes fallow sites

- **2,918**

**Number of Species:**

- **29**

**Number of Countries:**

- **39**

**Rate of Retention:**

- **91%**

**Four-Star Processing Plants:**

- **236**
Producer Conformity Trends
2017-2020

BAP standards are the world’s most comprehensive for farmed seafood, built on the four pillars of responsible aquaculture — environmental responsibility, social accountability, food safety, and animal health and welfare, with a foundation of traceability. BAP standards continue to drive improvement throughout the industry, which is illustrated by this analysis of non-conformities recorded for all facility types (processing plants, farms, hatcheries and feed mills) from 2017 to 2020. Looking at each chart, there is a clear trend toward greater compliance in that the number of non-conformities from producers’ first audit to their third is falling over time. A non-conformity is a violation of a clause within a standard; there are dozens of clauses in each standard. All non-conformities must be addressed before a facility earns certification. This shows that annual audits work.
Feed conversion ratio, or the rate at which the fish converts feed to biomass, is a good indicator of how efficiently feed is used in production. Data from hundreds of audit reports for Chilean salmon farms show a reduction in the amount of feed needed to produce biomass in salmon, which has implications for reduced cost for the farm as well as the environmental benefit of using less resources to produce the same amount of fish.
Farm Growth 2017-2020

From January 2017 to December 2020, BAP saw significant growth in BAP-certified farm volume for salmon, shrimp, tilapia, pangasius, mollusks, and catfish. This data is taken from volumes recorded by the auditor at the time of the audit. During those four years, total BAP-certified farm production for all species increased by 184%, with salmon farms and shrimp farms experiencing the most growth, with 258% and 199% respectively.
Our Global Impact

People Employed at BAP-Certified Facilities

305,000

Meals from BAP-Certified Seafood

23B

Based on 4oz Servings
Outreach Growth

Attendees at GOAL 2020: 800
475 attendees in Chennai, India in 2019

Monthly Page View (average): 105,321
Average of 30,000 pageviews per month in 2019

Downloads in 2020: 21,650
12,000 downloads in 2019

Media Impressions in 2020: 6.2B

Social Media Following (all channels): 225,000
160,000 following at the end of 2019
What People Are Saying on Social Media

Carissa Maurin
@CarissaMaurin

So exciting to see the project I’ve been working on for the past year at @GMRI be featured by @GAA_Aquaculture. Thank you GAA!

ajay_p232

This is really good initiative by GAA to give free education about IPRS. 🤖 I’m from India and wanted to join this course, I recently worked in aquaculture shrimp 🦀 and fish 🐟 farming in India.

Marco Espinoza 🌴 2nd
Food Safety, Quality, Certifications and Integrated Management Systems

Good to see how remote audits can accomplish BAP goals and ensure companies alignment.

Lionel Thompson 🌴 2nd
CEO at Aquasil & Ocean Activist

Big fan of what you all do! Amazing group!

David Fincham

Agreed, much still has to do with the Supplier’s integrity and the ability to monitor and police by BAP. And internal industrial communication and associations. The work of GAA and BAP is certainly some of the best worldwide. Keep it up.

Simao Zacarias 🌴
@simaozacarias2

Thanks @AquaculturePod for the opportunity to share my career pathway in Aquaculture.

I invite my followers to enjoy this podcast.
Testimonials

MARK EARNEST  
Vice President Quality Assurance, Captain D’s

Our partnership with GAA helps us support the seafood industry, and through its Best Aquaculture Practices certification program, we provide confidence that we source high quality products for our brand and guests. We look forward to continuing this partnership in the future.

TOMMY SEKIGUCHI  
General Manager of Aquaculture & Nutrition Dept., Mitsui & Co., Ltd.

We are happy to work with BAP because it helps us as a company meet our goals to improve seafood sustainability, and we also value the partnership they bring to the table in working directly with the market.

MR. YUBIN SUN  
General Manager, SeaWorld

Adding BAP certification into our sourcing policy gives us more confidence to provide safe seafood to consumers. And it also helps continually improve the food safety through the whole supply chain.

RODRIGO DE LA SERNA  
Business Development, Grupo Selecta

At Grupo Selecta, we benefited from the implementation of the BAP certification standards by strengthening our processes, organizing our best practices, and brought about a continuous improvement mindset in the company’s culture, which not only enhanced the efficiency and quality of our products, but also benefits our employees and their environment.

MATTHEW GROLNIC  
Director of Quality Assurance, Atlantic Capes Fisheries

Atlantic Capes Fisheries believes in GAA’s vision and where the organization is headed. By attaining certification of our processing plants and sourcing from BAP certified producers, we have greater access to the marketplace and demonstrate to our customers that we use safe and responsible practices.

JESSICA MCCLUNEY  
McCluney Seafood Strategies, Strategic Partner of GAA

Aquaculture is a prominent feature of our food security landscape in the future, and done well can be (and I would argue it will need to be) a positive contribution towards achieving a better ecological and socioeconomic harmony. I like that GAA has recognized the value of voicing that message sooner rather than later.

KEITH DRYNAN  
Troulodge, Individual Member of GAA

Since coming to the U.S., I have been shocked by the general preconceptions around aquaculture and fish farming – in all species. In Europe fish farming has been developed more extensively and although it has its challenges I think it is more accepted as part of the agricultural industry. The world needs more sustainably produced protein, and I believe that aquaculture has a huge part to play in the provision of nutritious, affordable seafood. I joined the Global Aquaculture Alliance to be part of that message.

NELY SERRANO  
Individual Member of GAA

I joined the GAA to be updated on the development of aquaculture worldwide, and to know the new trends of the activity and in that sense to support with information the young professionals who start and the community of farmers in general.
WE’VE GOT YOUR BACK

Customer service is of utmost importance to the Global Aquaculture Alliance. GAA consolidated its operations in Portsmouth, New Hampshire, USA, in 2015 to better serve its customers, and in August 2018 the organization opened a brand new office in Pease International Tradeport. There are about 50 employees based in the Portsmouth office, with an additional 20 part- and full-time employees working in thirteen countries (Australia, China, Colombia, Germany, India, Indonesia, Mexico, New Zealand, Norway, Thailand, United Kingdom, United States and Vietnam).
PEOPLE & PLANET

A Global Presence
Governance

GAA BOARD OF DIRECTORS

Bert Bachmann, Retired
Eric Bloom, Eastern Fish Co, Inc
Rittirong Boonmechote, Thai Union Group
Joe Chekouras, Mazzetta Co
George Chamberlain, Global Aquaculture Alliance
Tony Downs, Sysco Corp
John Galiher, Preferred Freezer Services
Laura Garrido, Pescanova USA
Nelson Griffin, Red Lobster Seafood Co
Bill Herzig, Sustainable Strategies & Initiatives
Robert Jones, The Nature Conservancy
Santhana Krishnan, Maritech
Robins McIntosh, Charoen Pokphand Foods Public Co., Ltd
Sergio Nates, ALAPRE
Gorjan Nikolik, Rabobank
Ron Patton, Grobest Global Service Inc.
Jeff Sedacca, Sunnyvale
Terry Stachowiak, Rich Products
Wally Stevens, Global Aquaculture Alliance
Daniel Underkoffler, Sam’s Club

GAA STANDARDS OVERSIGHT COMMITTEE

Patrick Blow, Marks and Spencer
Dr. Alejandro Buschmann, Research and Development Center of Coastal Resources and Environments
Dr. Simon Bush, Wageningen University
Ken Corpron, Global Aquaculture Alliance
Tyler Isaac, Monterey Bay Aquarium
Kathy Janiga, FSQ Mark Foods Inc
Dane Klinger, Conservation International
Birgitte Krogh-Poulsen, Independent Social Development Consultant
Dan Lee, BAP Standards Coordinator
Dr. David Little, University of Stirling
Lukas Manomaitis, U.S. Soybean Export Council
Tuan Hoang Nguyen, BluYou Vietnam
Kim Thompson, Aquarium of the Pacific
As you paged through this annual report, you probably noticed that aquaculture covers a wide spectrum of technologies from semi-natural systems with practices that are centuries old to controlled indoor systems that are highly automated and mechanized. While GAA’s core business is providing assurances to those sourcing seafood from these systems, we’re always striving to engage with the full spectrum of farmers and to build upon our certification program to recognize those who are going above and beyond.

In Bangladesh, we’re currently participating in a World Bank project to assist low-income smallholder farmers with production and marketing of large, naturally pigmented black tiger shrimp while also helping improve their productivity and market access.

On the leading edge of technology, GAA is proud to have launched a Vanguard program last year that is developing “bolt on” standards for certified facilities that are pursuing advanced objectives. For example, the Climate Action Vanguard standard addresses processes for reducing greenhouse gas emissions through on-farm energy efficiency, feed ingredient selection and circular economy gains. The Recirculating Aquaculture System (RAS) Vanguard standard addresses water use efficiency, effluent water quality, energy use, animal welfare and circular economies. Other Vanguard standards are being developed for sustainable ingredients, electronic traceability, raised without antibiotics and enhanced animal welfare. We hope to put these Vanguard sets of standards to market beginning this year.

We aspire to help the full spectrum of aquaculture move forward to improve productivity and sustainability.

Sincerely,

George Chamberlain