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Aquaculture Canada^{OM} 2010 and Cold HarvestTM 2010



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or

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Cooke Aquaculture Tongue Shoal site in Passamaquoddy Bay – St. Andrews, NB

The AAC Nerve Centre: The Association Office

The AAC office was established in 1987. Since its inception, Fisheries and Oceans Canada Scientist Susan Waddy has been the volunteer Office Manager, donating countless hours to the Association. You can find Susan and Office Administrator, Catriona Wong, in the Medcof building at the St. Andrews Biological Station in New Brunswick. Catriona has been with the AAC for the last two years and is expecting, taking maternity leave at the beginning of April. One unique facet of the AAC office is the bird area outside the office windows; a popular spot for birders and nature enthusiasts alike. Both Susan and Catriona volunteer with Bird Studies Canada by reporting on their avian visitors.



Top right: The bird 'visitation centre' behind the Association office. Left: An expecting Office Administrator, Catriona Wong (left) and volunteer Office Manager, Susan Waddy (right). Right: New Brunswick's Provincial Bird, the Black-Capped Chickadee visits the Association Office.

By Christine Moore

Facility Spotlight: Oak Bay Hatchery, Cooke Aquaculture Inc.

With millions of fish in the sea and thousands of employees working on farms, plants, hatcheries and offices all around Atlantic Canada as well as Maine and Chile, it's tough to pinpoint Cooke Aquaculture's flagship facility. But the Oak Bay Hatchery near the border town of St. Stephen, NB, would definitely be a top contender. Not only is it the first link in the chain – where eggs are hatched and young salmon are reared until they're ready to be put out to sea – Oak Bay is also home to Cooke's prized broodstock; where the best performing families are kept and bred to produce the next generation of top quality Atlantic salmon.



Cooke Aquaculture Inc. purchased the Oak Bay Hatchery in 1989; first hatchery the Cooke family acquired. In 1989 Cooke was still a fledgling company; established in 1985 with two saltwater sites and 5,000 Atlantic salmon smolt. The modern, high-capacity recirculation hatchery of today bears little resemblance to the one Cooke took over – when it was a flow-through style hatchery, capable of producing about 200,000 smolt per year. In 1993, the hatchery was retrofitted and became a multi-point recirculation system. New fiberglass tanks were installed and each tank had its own small, air-driven biofilter/solids trap. At this time, Oak Bay had the capacity to produce 390,000 smolts and 600,000 fry.

In 1999 Cooke conducted a major overhaul and converted Oak Bay into a more modern single-point recirculation hatchery. The work started in the smolt production facility, where larger tanks, drum filters and gas-balancing equipment were installed. The hatchery began producing large amounts of So (fall smolt) facilitating the production of more smolt in the same space. At this point Oak Bay had eight 200-cubic-metre tanks and a dozen 36-cubic-metre tanks divided into two systems at about a 97 per cent recirculation rate. The hatchery could produce about 1.4 million smolt between S0s and S1s (spring smolt). The construction of a broodstock unit soon followed, with the potential to produce 15-20 million eggs. This was the first land-based recirculation broodstock facility in Canada! The early rearing unit was overhauled and switched to high-level recirculation with the ability to produce more than three million fry.



Eggs arrive from Cooke's on-site broodstock, which produce just under 7 million eggs with the capacity to incubate an additional 3 million from other freshwater brood located in other farms. Broodstock selection is done on broodstock family groups harvested in salt water. The data from this harvest is brought back to the hatchery where all spawned broodstock are ranked according to how well their families performed at harvest.

In addition to fish production, Oak Bay Hatchery is also the headquarters for Cooke's alternate species development research as well as its Offspring DNA Traceability program, which, once fully developed, will enable the tracking of fish from the dinner plate back to the processing plant, ocean farm, hatchery and family using a unique, natural DNA marker – nature's barcode.

By Chuck Brown, Cooke Aquaculture Inc.

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Thank you!

Did you donate to the Student Endowment Fund this year and we missed you in the Watermark? Let us know!

Why Support the Student Endowment Fund?



"I was once a student and I know how much a bit extra can help – getting to a meeting or money for a textbook or any other worthwhile endeavour – even going to a restaurant

with friends in the same course can be something that helps – information transfer – picking up tidbits of information that will come in useful some day, 'bonding/ networking' and any one of a dozen reasons why we help, from those of us who have 'been there'.

Iola Price is a regular donor to the SEF. She has spent her career in the science sector and is a former Director of Aquaculture and Oceans Science with Fisheries and Oceans Canada

"I support the AAC student endowment fund because of the learning, contacts and experience gained from attending conferences. In the natural order of things the young replace the old, such as founder members like me. As it



is rather expensive for me to travel from Ghana I am glad to contribute to help students to attend in my stead."

Julian Hynes is a long-time AAC member and SEF donor. He has spent much of his career fostering world aquaculture development; from the third world to Northern Ontario. He presently promotes fish farms as livestock agriculture in Ghana

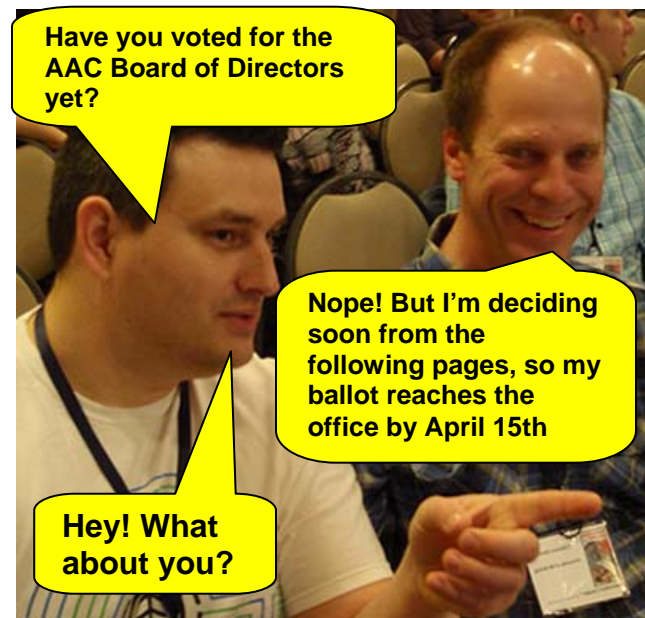
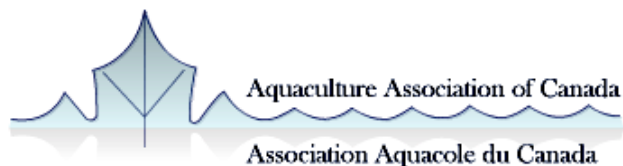
Watermark Production and Editing

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Have you voted for the AAC Board of Directors yet?

Nope! But I'm deciding soon from the following pages, so my ballot reaches the office by April 15th

Hey! What about you?

Vote for your AAC Board of Directors. Your ballot must reach the AAC Office by April 15th. If you didn't receive your ballot in the mail contact the AAC Office.

Céline Audet has been involved in aquaculture research since 1988 (M.Sc., UQAM; Ph.D., Laval University; post-doctoral training, McMaster University). Her research projects are on salmonids (anadromy, genetics, and genomics), marine fish species (larval and juvenile growth), and crustaceans (metabolism). Over the years, she has served on many Québec organizations that are devoted to the development of the aquaculture industry. She chairs a provincial aquaculture research network (Réseau Aquaculture Québec) and is principal investigator on a CREATE grant that provides scholarships at undergraduate to post-doctoral levels for training in aquaculture. She is a long-time member of the AAC and has served as a board member since 2008. If elected, she intends to use her scientific, networking, and communication skills to promote the development of research-industry interfaces and to develop tools to attract and interest a new generation to the field of aquaculture.

Céline Audet



Céline Audet poursuit des recherches en aquaculture depuis 1988. Diplômée de l'UQAM (M.Sc.), puis de l'U. Laval (Ph.D.), elle a complété sa formation par des études post-doctorales à l'U. McMaster. Ses projets actuels portent sur les salmonidés (anadromie, génétique, génomique), les poissons marins (croissance larvaire et juvénile) et les crustacés (métabolisme). Elle a siégé à diverses instances québécoises œuvrant au développement de l'aquaculture, préside un réseau provincial de recherche en aquaculture (Réseau Aquaculture Québec) et est responsable d'une demande FONCER visant à soutenir la formation en aquaculture du niveau sous-gradué au niveau postdoctoral. Membre de l'AAC depuis plusieurs années, elle siège à son conseil d'administration depuis 2008. Si elle est élue, elle entend mettre à profit son expérience scientifique, de mise en réseau et de communication au service du développement d'interfaces recherche-industrie et de la mise en œuvre d'outils pour attirer et intéresser les générations montantes à l'aquaculture.

Nathaniel Feindel entered the aquaculture industry in 2006 as a saltwater technician after obtaining his B.Sc. in Biology and Interdisciplinary Studies in Aquatic Resources at St. Francis Xavier University. Nathaniel's ambition and enthusiasm for aquaculture led him to successfully co-manage a research facility at the Huntsman Marine Science Centre. During his work Nathaniel was accepted to the M.Sc. program through UNBF and stationed for his research at DFO in St. Andrews with the Aquaculture Section. Nathaniel has been an ideal candidate for the promotion and development of aquaculture through presentations and promotions of his work across Canada and in Europe, techniques which have the potential to contribute to environmentally sound development of Atlantic cod culture. As an AAC Student Affairs Committee member for the past two years, and with his increasing involvement in the industry, Nathaniel's next step would be promoting and developing the industry through a more direct role in the AAC.

Nathaniel Feindel



Nathaniel Feindel est entré dans l'industrie d'aquaculture en 2006 comme un technicien d'eau salée après l'obtention de son B.Sc. en biologie et études interdisciplinaires des ressources aquatiques à l'Université de St. Francis Xavier. L'ambition de Nathaniel et son enthousiasme pour l'aquaculture lui ont permis avec succès de co-gérer une installation de recherche au Centre des Sciences marines de Huntsman. Pendant son travail Nathaniel a été accepté au programme de M.Sc. par UNBF et placé pour sa recherche, à St. Andrews, avec la Division d'Aquaculture au MPO. Nathaniel a été un candidat idéal à la promotion et au développement d'aquaculture grâce à la présentation et promotion de son travail à travers le Canada et en Europe; des techniques qui ont le potentiel pour contribuer à un développement environnemental solide de la culture de morue de l'Atlantique. Comme un membre du Comité d'Affaires d'Étudiant de AAC pendant les deux dernières années et sa participation progressive dans l'industrie, la prochaine étape de Nathaniel serait de développer et de promouvoir l'industrie, par un rôle plus direct dans l'AAC.

Matthew Liutkus began his aquaculture career in Country Harbour, Nova Scotia working as a mussel farm technician in 2004. After gaining practical experience, he completed the Marine Institute's Advanced Diploma in Sustainable Aquaculture, and returned to Country Harbour as a farm manager. Having taken interest in alternative aquaculture techniques, Matthew spent the next 2.5 years completing an MSc degree (University of New Brunswick), studying the seston dynamics of mussel and salmon culture by-products in an Integrated Multi-Trophic Aquaculture (IMTA) environment. He was also employed by the IMTA project, advising Cooke Aquaculture on mussel culture practices. Matthew has been actively involved in the AAC since 2005—significantly contributing to the Student Affairs Committee during this period. Currently situated in Ottawa, he works as a consultant for the Canadian Food Inspection Agency. If elected, he hopes to contribute to the Association by maintaining government industry relations and aiding conference organization.

Matthew Liutkus



Matthew Liutkus a commencé sa carrière en aquaculture en 2004, à Country Harbour en Nouvelle-Ecosse, travaillant comme un technicien à une ferme de moules. Après l'acquisition d'expériences pratiques, il a achevé un diplôme avancé en aquaculture durable au "Marine Institute", et a retourné à Country Harbour comme gérant d'une ferme aquacole. Ayant pris de l'intérêt aux techniques d'aquaculture alternatives, Matthew a passé les prochaines 2.5 années en complétant un diplôme de MSc (à l'Université du Nouveau Brunswick), dans l'étude de la dynamique des "seston" de moule et des sous-produits de culture de saumon dans un environnement d'Aquaculture Multi-Trophique Intégrée "IMTA". Il a été aussi employé par "Cooke Aquaculture" dans un projet d'IMTA comme conseiller sur les pratiques de culture de moules. Matthew a été activement impliqué dans l'AAC depuis 2005—contribuant significativement au "Comité d'Affaires d'Étudiant" pendant cette période. Présentement situé à Ottawa, il travaille comme un consultant pour l'Agence d'Inspections Alimentaire canadienne. Si élu, il espère contribuer à l'Association en développant les liens entre le gouvernement et l'industrie et en aidant l'organisation de conférence.

Aaron Frenette is currently an MSc candidate from the University of New Brunswick focusing on basic research on a fungal pathogen towards the translational goals of selection of genetically-resistant cod broodstock. He has been a member of the AAC for two years and has international research experience with fish disease experts in Iceland, opening the doors for collaboration with other European labs that are being impacted negatively by fish pathogens. His research-oriented experience has given him the practical skills and tools to employ multifaceted approaches towards the rational development of contemporary methods regarding prevention of infections and disease in cultured fish populations. The ultimate objective is to employ translational research tools along with other proactive management strategies to assist in efforts to mitigate disease during aquaculture towards sustaining an economically important Canadian industry.

Aaron Frenette



Aaron Frenette est présentement un candidat pour une Maîtrise en Science de l'Université du Nouveau-Brunswick. Sa recherche adresse un pathogène fongique qui pourrait mener à la translation de gènes sélectifs pour des populations de morues résistantes. Il a été un membre de la AAC pour deux ans et a de l'expérience de recherche au niveau international, ayant étudié avec des experts en maladie de poissons en Islande, ce qui lui ouvre des portes à des collaborations potentielle avec d'autres laboratoires Européens qui seraient impactés négativement pas des pathogènes de poissons. Son expérience en recherche lui a donné des compétences pratiques et des outils pour adresser d'une manière multidirectionnelle le développement d'approches contemporaines de prévention d'infections et de maladies dans de populations d'aquaculture. Son objectif ultime est d'utiliser ses méthodes de translations avec d'autres stratégies de gestions proactives pour la réduction de maladies durant l'aquaculture, en but de contribuer au fonctionnement durable de cette industrie Canadienne importante.

Charles Sacobie has been involved with aquaculture since 1996, when he had a summer job collecting zooplankton for a halibut farm. What was once a summer job became a passion and a career change to aquaculture research. Charles received a M.Sc. from the University of New Brunswick with a focus on sex reversal and creating all-female populations of salmonids. He is currently finishing a Ph.D. with a research focus of energy requirements of triploid salmonids, also at UNB. He has been a member of AAC periodically since 1998 and has presented his research at several AAC conferences as a graduate student, and won best student oral presentation in 2001. If elected, Charles will bring his passion and ideas to the AAC and help in anyway to the continued growth and success of the aquaculture industry.

Charles Sacobie



Charles Sacobie a été impliqué avec l'aquaculture depuis 1996, lorsque son emploi d'été était la collection de zooplancton pour une ferme de flétan. Ce qui était une fois qu'un emploi d'été est devenu une passion et un changement de carrière de recherche en aquaculture. Charles a reçu un M.Sc. de l'Université du Nouveau Brunswick avec comme centre d'intérêt de recherche, le renversement sexuel et la création des populations exclusivement féminines de salmonidés. Il finit actuellement un doctorat avec comme centre d'intérêt de recherche, les besoins énergétique des salmonidés triploïdes, aussi à l'UNB. Il a été un membre d'AAC périodiquement depuis 1998 et a présenté à plusieurs conférences d'AAC comme un étudiant gradué, et a gagné la meilleure présentation orale par un étudiant en 2001. Si élu, Charles apportera sa passion et idées à l'AAC et aidera n'importe comment, à la croissance continue et au succès de l'industrie d'aquaculture.

Tim Jackson has just completed a 2-yr term as an AAC Board member, serving on several committees and as Co-Chair of the Membership Renewal Committee. He is an Industrial Technology Advisor with the National Research Council Industrial Research Assistance Program, based in Saint John, NB, with sectoral responsibility for aquaculture and biotechnology in New Brunswick. He recently completed a 6-mo term as Acting Director in the NRC-IRAP Atlantic & Nunavut Region. Tim is a graduate of UNB Saint John (B.Sc. Marine Biology) and University of Guelph (M.Sc. Zoology) and for the past 18 yr has been employed in the private, university, provincial, and federal government sectors in the areas of aquaculture production improvement, genomics, forensic biology, culture of marine finfish species, and biotechnology applications for the aquaculture industry. His involvement in aquaculture initiatives has extended internationally to the US, China and Europe. He has served on the Offshore Aquaculture Steering Committee of the New Brunswick Salmon Growers Association since 2003.

Tim Jackson



Tim Jackson vient de finir un mandat de directeur du conseil d'administration de l'AAC. Basé à Saint Jean, NB, Il est conseiller en technologie industrielle au Programme d'Aide à la Recherche Industrielle du Conseil National de la Recherche Canadienne. Avec le CNRC-PARI depuis 2002, Tim est responsable du secteur de l'aquaculture et de la biotechnologie au Nouveau Brunswick, travaillant en anglais et en français, mais il est aussi associé aux projets clientèles et d'autres initiatives dans la région Atlantique et à travers tout le pays. Il est un ancien étudiant de l'UNB à Saint Jean (B.Sc., biologie marine) et de l'Université de Guelph (M.Sc. Zoologie) et a travaillé depuis 17 ans dans les secteurs privés, universitaires et gouvernementaux provinciaux et fédéraux sur l'amélioration de la production aquacole, la génomique, la biologie légale, la culture des espèces de poissons marins, et les applications de la biotechnologie à l'industrie aquacole. Il a aussi été associé à des initiatives internationales sur l'aquaculture aux E-U, la Chine et l'Europe.

Shelley King is Director of Project Management with Genome Atlantic where she is responsible for managing large scale, multidisciplinary research projects including the \$18.1M Atlantic Cod Genomics and Broodstock Development Project (CGP) and the \$5.8M Comparative Assessment of Diploid and Polyploid Physiology & Production Traits Cod Project (C-ADAP^{3T}). Ms. King holds an MSc and an MBA from Memorial University, and has translated that into a broad range of experience in technology commercialization, business development, strategic partnership development and intellectual property management in both the private and academic sectors. Ms. King brings a strong vision for the aquaculture industry, as well as hands-on organizational skills, industry connections and knowledge of both the business and science of aquaculture. These, along with her willingness to actively participate in committees and ability to move projects forward will make her a valuable asset to the Board of the Aquaculture Association of Canada.

Shelley King



Shelley King est directrice de la gestion des projets chez Génome Atlantique. Elle y est chargée de la gestion de projets de recherche multidisciplinaires à grande échelle, y compris le Projet de génomique de la morue et d'amélioration du stock de géniteurs (PGM) d'une valeur de 18,1 M\$ et du projet d'Évaluation comparative de la physiologie diploïde et polyplœïde et des caractéristiques de production de la morue (*Comparative Assessment of Diploid & Polyploid Physiology & Production Traits Cod Project; CADAP^{3T}*) d'une valeur de 5,8 M\$. Mme King détient une maîtrise en sciences et un MBA de l'Université Memorial, ce qu'elle a transposé sur un grand éventail d'expériences en commercialisation des technologies, en développement d'entreprises et de partenariats stratégiques et en gestion de la propriété intellectuelle tant dans le secteur privé que dans le milieu universitaire. Mme King apporte une vision claire de l'industrie aquicole et des compétences organisationnelles pratiques, ainsi que des liens et des connaissances dans le secteur tant du côté des affaires que de la science de l'aquaculture. Ces habiletés, ainsi que son intérêt à prendre part aux comités et sa capacité de faire avancer les projets en feront un précieux atout au sein du conseil de l'Association aquacole du Canada.

Gehan Mabrouk is the Section Head of the Aquaculture, Biotechnology and Aquatic Animal Health Section, Science Branch, Newfoundland & Labrador Region, Fisheries and Oceans Canada. Gehan has graduated from Veterinary school, Cairo University, Egypt where she started her career in aquaculture research in the Animal Health Research Institute, Department of Agriculture, Egypt. In 1990, Gehan moved to Newfoundland and obtained a Masters of Science from Memorial University where she worked in a variety of research positions until 2001. Gehan then held various management positions in the public and private sectors. Gehan is Regional Chair for Aquaculture Collaborative Research and Development Program (ACRDP) in Newfoundland. She is a member of the ICES Working Group on Application of Genetics in Fisheries and Mariculture, Working Group on Environmental Interactions of Mariculture and Working Group on Marine Shellfish Culture. If elected, she hopes to work to strengthen the role of the AAC in promoting the sustainability of aquaculture in Canada.

Gehan Mabrouk



Gehan Mabrouk est la chef de la section d'Aquaculture, Biotechnologie et Santé de la Faune Aquatique du Département des Pêches et Océans de Terre Neuve et Labrador. Gehan est diplômée de L'école Vétérinaire de l'Université du Caire (Egypte) où elle a commencé sa carrière à l'Institut des Sciences de la Santé Animale du Département d'Agriculture (Egypte). En 1990, Gehan a déménagé sur Terre Neuve où elle a obtenu un Master en Science de l'Université Memorial de St-Jean où elle a occupé des postes divers jusqu'en 2001. Gehan a occupé de nombreux postes de responsabilité dans le secteur public et privé. Gehan est la responsable du comité PCRDA au Département des Pêches et Océans de Terre Neuve. Elle est un membre actif du groupe ICES sur l'application de la génétique aux sciences aquacoles et de la pêche ainsi que celui traitant des interactions environnementales de la mariculture et celui sur la culture marine des bivalves. Si élue, elle espère travailler au renforcement du rôle de l'association aquacole du Canada dans la promotion du développement durable de l'aquaculture au Canada.

Joanne Power has been dedicated to aquaculture over the past 5 years. Currently employed within the Department of Fisheries and Ocean's Aquaculture Management Directorate, working on national aquaculture regulatory programs, she has also worked as an Aquaculture Science Technician (St. Andrews' Biological Station) and with industry, as a biologist (Sweeney International Management Corp), where she worked on various aquaculture environmental management-related files in the Atlantic Provinces. Joanne's experience is supported by her education—she has completed an M.Sc. (Biology) degree, at the University of New Brunswick, focussed on halibut cage culture development in the Bay of Fundy, and the Marine Institute's Advanced Diploma in Sustainable Aquaculture. Joanne has been a member of the AAC since 2005, actively contributing to the Student Affairs Committee and aiding in publication distribution. If elected, Joanne hopes to contribute to strengthening the Association by better engaging industry, environmental groups, students and government, and better reflecting the industry's potential through improved public awareness.

Joanne Power



Joanne Power a été impliquée dans l'aquaculture pendant les cinq dernières années. Actuellement employé par le ministère des Pêches et des Océans, Direction de l'Aménagement de l'Aquaculture, travaillant sur des programmes réglementaires nationaux en aquaculture. Elle a aussi travaillé comme une technicienne en Science de l'Aquaculture (à la Station Biologique de St. Andrews) et avec l'industrie comme une biologiste (Sweeney International Management Corp), où elle a travaillé sur divers programmes concernant la gestion environnementaux de l'aquaculture dans les provinces atlantiques. L'expérience de Joanne est supportée d'après son éducation—elle a achevé un diplôme de M.Sc. (Biologie) à l'Université du Nouveau Brunswick, dans le développement de la culture en cage de flétans dans la Baie de Fundy, et un diplôme avancé en aquaculture durable au "Marine Institute". Joanne a été un membre de l'AAC depuis 2005, contribuant activement au "Comité d'Affaires d'Étudiant" et en aidant dans la distribution des publications. Si élu, Joanne espère contribuer au renforcement de l'Association par un meilleur engagement avec l'industrie, les groupes environnementaux, les étudiants et le gouvernement, et en améliorant l'image potentiel de l'industrie à travers une meilleure conscience publique.

Raised on the coast and currently residing in Nanaimo, **David McCallum** has built a strong connectedness to British Columbia's coastal resources and industry sector. In 2006, David completed his Master's Degree (UVic Geography with funding from AquaNet), which examined potential compatibilities between the shellfish farming industry and marine conservation initiatives. This led to his 3.5-year term employment at the BC Shellfish Growers Association where, as Research & Development Coordinator, he acted as liaison between the BC shellfish farming industry and the science community. David currently works as an independent coastal resources consultant specializing in aquaculture industry development. He began his tenure on the AAC Board in 2007 and currently sits as chair of the Student Affairs Committee. When re-elected, he intends to further his effort on behalf of the AAC to advance Canada's aquaculture industry sectors, specifically by bringing the AAC resources to industry.

David McCallum



Élevé sur la côte et résidant actuellement à Nanaimo, **David McCallum** a acquis une forte connectivité aux ressources côtières de la Colombie-Britannique et de l'industrie. En 2006, David a complété ses études de maîtrise (UVic Géographie avec le financement d'AquaNet), qui a examiné les compatibilités possibles entre l'industrie de la conchyliculture et des initiatives de conservation marine. Cela a conduit à son emploi de 3,5 ans à l'Association de la conchyliculture en Colombie-Britannique où, comme Research & Development Coordinator, il a agi comme agent de liaison entre l'industrie de la conchyliculture en Colombie-Britannique et la communauté scientifique. David travaille actuellement comme consultant indépendant, les ressources côtières spécialisée dans le développement de l'industrie de l'aquaculture. Il a débuté son mandat à la Commission AAC en 2007 et est actuellement le président de la commission des affaires étudiantes. Lorsque réélu, il entend poursuivre ses efforts au nom de l'AAC pour faire avancer les secteurs de l'industrie canadienne de l'aquaculture, notamment en apportant les ressources AAC à l'industrie.