

AGRICOLA NEWS

For the Alumni and Friends of the Nova Scotia Agricultural College

Winter 2001

Volume 25 Number 1

Aquaculture at NSAC

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Aquaculture at NSAC

NSAC's state-of-the-art, comprehensive, professional, undergraduate Aquaculture degree program is a natural extension of NSAC's mandate for education and research in food production, with a practical business orientation.

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Inducts Four New Members _____ 11

The Atlantic Agricultural Hall of Fame inducted four new members during its annual recognition ceremony ; two of which were NSAC alumni. Don Cox, '46 and Allan Saunders, '45.



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Jim Goit assumes the new position of Executive Director of Development and External Relations as the NSAC gets serious about an institutional development program.



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AGRICOLA NEWS

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Cover: Assistant Professor Dr. Jim Duston weighs and
measures a Stripped Bass as part of his ongoing aquacul-
tural research.



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A Message from the Principal



A handwritten signature in black ink that reads "Garth Coffin". The signature is written in a cursive, flowing style.

Garth Coffin, Class of '60
Principal, NSAC

Dear Fellow Alumni and Friends,

The first year of a new millennium brings more than the usual air of anticipation and expectancy about what the future might hold. The year 2001 has the feel of an entry point into a whole new world of opportunity in the agriculture and food industry, a world in which the effects of science and technology have only begun to be felt. It has the feel of a world in which human values will take on much greater significance as the notion of the global village becomes more and more a reality; it has the feel of a world in which consumers are developing new interests in foods and new adventures in variety as well as wanting more knowledge and information about nutrition, food safety and how and where their food is produced; it has the feel of a world in which excessive reliance on existing technologies in agricultural production has contributed to environmental issues, posing new challenges to our food producers and their advisors; it has the feel of a world in which a rapidly growing knowledge of genomics and molecular biology is providing a foundation for the development of new foods, new ways of producing foods and new non-food uses of agricultural commodities as an integral part of the life sciences economy. What better time to be in the business of the science and technology of agriculture than right now? What better time than now to be in the business of education and research in science and technology?

As we emerge from the experience of restructuring and prepare to enter a new process of strategic planning at the NSAC, it is exciting to consider the possibilities. Whether it is in the domain of organic agriculture or genetically modified organisms, we are being called to develop and

disseminate new knowledge; whether it is in the domain of resource management, food production, or environmental horticulture, we are called to prepare highly qualified personnel for future leadership roles; whether in the Atlantic Region or the international front, we are expected and able to play an important role in the advancement of agriculture. Such is the array of choices laid out before us. Our task is to focus and mobilize in the chosen directions for education and research and we intend to set that course over the next five months. Any alumni who wish to have input into the future directions of the NSAC are invited to write or e-mail me or others with whom you wish to communicate on this subject by the end of February.

The last newsletter contained information about restructuring which was still in progress within the Government of Nova Scotia. Since that time, a new Department of Agriculture and Fisheries has been formalized with the NSAC still part of that Department. Much of what we knew as extension services will be carried out by the newly created Agricultural Development Institute (ADI), a corporation governed by a Board of Directors with industry, government and NSAC representation. The recently engaged Executive Director, Dale Kelly, is an NSAC alumnus with whom we look forward to forging the relationship between the ADI and the NSAC. Congratulations Dale!

The fall semester was a busy one at the NSAC with Homecoming and Open House scheduled in October, followed in rapid succession by Autumn Assembly, the second biennial Atlantic Agricultural Science and Technology Workshop and the Annual meeting of the Canadian Confederation

of the Faculties of Agriculture and Veterinary Medicine. As you will see elsewhere in the newsletter, at Autumn Assembly we awarded some \$640,000 worth of scholarship and bursaries to our students and bestowed an Honorary Doctorate degree on former Agriculture and Agri-Food Canada scientist Charles Eaves, a pioneering researcher in post-harvest technology.

We are intensifying our recruitment efforts in order to reverse a recent decline in the number of students. Young people need to know that the NSAC offers an excellent educational experience at diploma, degree and graduate levels. We need your help in getting the word out to prospective students in your area. Our new brochure will be distributed through the news media across the Atlantic Region. Copies can be made available to anyone with a single request to Stephanie Rogers. We have also launched our new web site at www.nsac.ns.ca in January. Check it out.

We welcome Clint McLean as the new President of the Alumni Association along with new Directors Bradley Briggs ('99), Patricia Bishop ('99) and Steve Spinney ('86). We look forward to working with you. At the same time, I want to express my appreciation for the leadership and support of Evans Estabrooks as President over the past two years. I believe that significant progress has been made in the affairs of the Association and would like to wish Evans and retiring Directors Chris Dunbar, Alan Porter and Judy Grant all the very best.

And speaking of good wishes, allow me to wish everyone a happy, prosperous and successful 2001 in all that you do. ☺

A Message from the President



A handwritten signature in black ink, appearing to read 'Clint McLean'.

Clint McLean, Class of '79
President, NSAC Alumni Association

It is a pleasure to be writing you as President of the NSAC Alumni Association. I want to start by expressing my thanks to Past-President Evans Estabrooks for his service and leadership to the Association and the overall NSAC community. We will also miss the experience and guidance of Judy Grant, Chris Dunbar and Alan Porter. I feel the Alumni Association is well positioned to move ahead in accomplishing its goals, largely due to the groundwork laid in recent years. I know we will be calling on these and other alumni for advice and input in the future.

The new Board of Directors of the NSACAA took office in October and is getting down to business. Several committees have been formed to work on priority items.

It was nice to see many of you during the Homecoming Weekend in October. This was our first experience with holding this annual event in the fall and we would be most interested in receiving any feedback, which may help in organizing future events. Plans are already underway for next fall's event, so stay tuned!

I also had the privilege of participating in the NSAC Autumn Assembly. It is encouraging to see the enormous support in the form of scholarships and bursaries awarded and to have a chance to meet with many present and future alumni.

I know that many alumni have experienced considerable change in their work environments and personal lives in recent times. The NSAC has undergone its share of change as well, as reported elsewhere by Principal Coffin. Our challenge is to

A top priority for the NSACAA will be to improve communications, both within the Board and with the general membership. Given the geographic realities that face us, we will be depending more on conference calls and other means to maintain Board activity and to benefit from the input of those whose location limits their ability to participate in face-to-face meetings.

work together to maximize the opportunities inherent in change and minimize any negative impact during the period of adjustment that some may find themselves in.

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tain Board activity and to benefit from the input of those whose location limits their ability to participate in face-to-face meetings. One unresolved area is how we can communicate effectively with Alumni. Recent legislation in Nova Scotia, known as the Freedom of Information - Protection of Privacy Act (FOIPOP) has far-reaching ramifications for the future of the Association. We are hopeful that a solution can be found that will allow us to move forward.

A high priority for the past Board was to clarify the relationship between the NSACAA and the NSAC Foundation. Work is ongoing and I had the opportunity to meet with the

Board of Directors of the Foundation before Christmas to learn more about their structure, plans and activities. I am confident we can find ways to find progress in many areas of common interest.

As always, your Alumni Board of Directors would welcome any ideas you may have as we move along in our term. I look forward to meeting many of you over the coming year. 📧

Around & About.....



Back row (l - r): Bradley Briggs ('99), Shelley Woodworth ('94), Mark Urquhart ('92), Tim Fisher ('93), and Steve Gallant ('99). Front row (l - r): Wendy Burns ('97) and Michelle Burns ('96)

AC Grads Employed with Cavendish

In November of 2000, the Nova Scotia Agricultural College Career Services Office was pleased to host Jim Walker, Corporate Recruiter for Irving Moncton and a group of AC grads who have gone to work for either Cavendish Agri-Services or Cavendish Farms.

The group put on three information sessions during the day which were all open to the students, staff and faculty of the College. The turn-out for the sessions was a success, with over 30 people in attendance overall.

The College has a wonderful relationship with Irving Moncton and they hire our grads on a regular basis. We look forward to continuing this relationship in the future and adding to the number of Aggies on the Irving Team.

Charlie Embree, Class of '61

Award Acknowledges Outstanding contribution to Apple industry



Kentville-based tree fruit research scientist Charles Embree (left) and Nova Scotia Fruit Growers' Association President Hal Stirling are shown with the Uniroyal Golden Apple Award, presented to Embree for his "outstanding contribution" to the apple industry.



Suzanne and Greg Gerrits

Greg Gerrits, Class of '92

Amazing Mazes of Maize

It may be a maize maze but there's nothing corny about the benefits of a twisting path through a Sheffield Mills, Kings County, cornfield.

Greg Gerrits and his wife Suzanne have cut two mazes through a 1.2 hectare planting of corn on Bain Road, providing what they call great family entertainment.

There are actually two mazes in the circular field at Elmridge Farm - a 15 minute beginner path and an expert one that takes about 35 minutes to complete.

About 260 people have gone through the maze in two of the three weekends since it opened on Saturday September 9, 2000 as part of the Sheffield Mills Harvest Fair and was a great success! The Amazing Maize Maze is three acres of corn grown in the shape of a crop circle. It is 400' across surrounded by a field of barley grain. The corn is 8' tall.

Mr. Gerrits cut through the field about a month after it was planted. Ms. Gerrits used a computer to map out the winding path. Admission is from \$2 - \$4 per person. For information call 582-3608 or visit the web site at: www3.ns.sympatico.ca/elmridge.farm

Charles Embree, of Port Williams, well-known local research scientist and tree fruit physiologist, was the 2000 recipient of the Uniroyal Golden Apple Award, presented annually by the Nova Scotia Fruit Grower's Association in recognition of outstanding contribution to the industry.

Charlie's affiliation with the apple growers of Nova Scotia began in 1963 when he was appointed tree fruit specialist with the Nova Scotia Department of Agriculture and Marketing. His research, focused on rootstocks, hardiness, orchard design and crop load management, is aimed at finding solutions that will work for the apple growers of Nova Scotia.

*J. Donald MacAulay, Ph.D., P.Ag., P.Eng.
Class of '62*

APENS Citizenship Award, 2000

NSAC graduate J. Donald MacAulay was presented with the Association of Professional Engineers of Nova Scotia Citizenship Award during the APENS 19th Annual General Meeting and Conference September 29th and 30th, 2000. Community work began early in Mr. MacAulay's life beginning with his completion of Boy Scout training and progressed to a wide variety of professional, technical, religious and community organizations.

Douglas Goff, Class of '80

2000 Kraft Foods Teaching Award

Douglas Goff was awarded the 2000 Kraft Foods Teaching Award during the ADSA/American Society of Animal Science 2000 Joint Meeting in Baltimore, July 24-28, 2000. Douglas Goff is from the Food Science Department of the University of Guelph, Canada.

He was recognized for his outstanding dedication and successes with all aspects of teaching dairy science in a food science curriculum. His activities stretch far beyond classroom and laboratory, including short courses; undergraduate advising, curriculum planning, development and maintenance of an extensive dairy science and technology education web site used by thousands of teachers, students and professionals worldwide, supervision of a highly regarded graduate teaching and research program and lastly administration of a major Canada-wide international student exchange program with Europe.

Goff earned his Associate diploma in Agriculture from NSAC, his B.Sc., in dairy science from the University of Guelph, his M.S in dairy science and Ph.D in food science from Cornell University.



Several NSAC alumni got together in Edmonton Alberta this past September, (L to R) Heather Anne Grant, Class of '98 Life President is currently a Master's Student in the Department of Rural Economy at the University of Alberta; Jamie Miller, Class of '99 is also a Master's student in the Department of Rural Economy at the University of Alberta; Sarah Turner, Class of '98 employed with Alberta Quality Pork and Jamie Johnstone Class of '98 and '00 who was in Alberta to participate in the Royal College of Physicians & Surgeons annual meeting to present his masters thesis work to the group.



Fred Walsh

Fred Walsh, Class of '50

Alumnus Honored by the Nova Scotia Fruit Growers Association

The Nova Scotia Fruit Growers Association celebrated the millennium by joining other horticultural commodity groups at Scotia Horticultural Congress 2000. In keeping

with the celebration, an honorary membership was awarded to retired apple grower, Fred Walsh of Rockland. Mr. Walsh has been involved in Nova Scotia's apple industry both as a grower and as agricultural representative for Kings County with the NSDAM. He has been a member of the NSFGA since 1952 and has actively served in many capacities including director, chairman of several committees, treasurer and most recently as president in 1997.



NSAC Alumnus Goes to the Dogs!

"Come bye clockwise", "Walk up", "Steady", are just some of the commands Shepherd and NSAC alumnus Kate Broadbent can be heard calling to her eight Border Collies she trains and sells throughout Canada and the United States.

Kate, an Animal Science graduate, is a Shepherd who consults and shares her expertise on sheep with various farmers across the continent. As part of her consulting business, Kate trains and sells

Border Collies and participates in the popular growing sport of Sheep Dog Trials.

"It's a fun and really unique sport," explained Kate "It's pretty addictive." Trialing is an incredibly popular sport, originating in the UK, and is especially popular in Texas and California.

Sheep Dog Trials are meant to mimic a typical working day for the dogs on a farm and reflect the ability of the dog handler as well. The dogs are rated for their natural ability, skill level and responsiveness as they are lead through an obstacle course with sheep.

Kate participates in trials wherever her work leads her; having accumulated enough points over the past year, Kate competed in the National Finals in Oklahoma in October of 2000.

Kate and two-year-old Tyke competed in the Open Nursery Final placing second among 130 competitors aged three years and under. Tyke was Reserve Champ and has a shot at it again next year as he is still eligible for 2001 to be held in Oregon.

"The joy in the partnership and working with the dogs is wonderful," Kate added. " I think we've only scratched the surface of what these dogs can do and learn and be." 🐾

Aquaculture at NSAC



It can be said that farmers, like aquaculturists, require a few basics to be successful. They need the biological background to produce top quality products; they need knowl-

edge of the market place and how it affects their operation and they need hands on experience. Aquaculture students at NSAC are blessed with all of these components.

The Aquaculture Program



Assistant Professor Dr. Jim Duston weighs and measures a Stripped Bass as part of his ongoing research.

The Nova Scotia Agricultural College is home to Atlantic Canada's only comprehensive professional undergraduate Aquaculture degree program. This state-of-the-art program is a natural extension of NSAC's mandate for education and research in food production, with a practical business orientation.

The Aquaculture program at NSAC, launched in 1995, is a four-year applied program of study leading to a B.Sc.(Agr) Aquaculture. As of May 2000, the program will have graduated 60 students. There are ten courses specific to Aquaculture including aquatic engineering, aquatic environment, fish nutrition, fish health, aquatic ecology, physiology of aquatic animals and finfish & shellfish production. These classes combined

with courses in economics and business, along with other sciences, provide the unique blend of husbandry and management training considered necessary for professionals involved in the production and processing of food from aquatic species. Most of the study, however, centers around information important to northern temperate climate Aquaculture.



A recirculation system with its biofilter system.



Healthy young oysters – from an NSAC research project.

Students also have the opportunity to work with and study both salt water and fresh water organisms and critical small scale experiments with Aquaculture species are conducted in new state-of-the-art facilities opened in May 2000.

The College also plays an active role in graduate training at the masters level in Aquaculture related fields and through its relationship with Dalhousie University can provide opportunities for Doctoral level training in similar fields.

In an effort to broaden the experiences of students while fostering positive research relationships which will benefit the region, a cooperative initiative was developed between the NSAC's Aquaculture program and St. Francis Xavier's Interdisciplinary Studies in Aquatic Resources (ISAR) program. The plan will facilitate student exchanges and foster educational and research collaborations between the faculties of the respective programs.



The Aquaculture Facility



The NSAC Aquaculture Centre is officially opened by (L to R) Dr. Garth Coffin, NSAC Principal, Ms. Marli MacNeil, Executive Director, Aquaculture Association of Nova Scotia, Senator Wilfred Moore, Dr. Jamie Muir, NS Minister of Health and MLA Truro-Bible Hill, Dr. Les Haley, former Principal NSAC and Dr. Derek Anderson, Head, Department of Animal Science.

At NSAC, Aquaculture students have the opportunity to work in a brand new state-of-the-art teaching and research Aquaculture facility. In 1996, the Canada/Nova Scotia COOPERATION Agreement on Economic Diversification committed \$2.3 million over five years to expand the Aquaculture facilities at the College and to buy specialized educational materials and resources for the program. The Agreement is managed by the Atlantic Canada Opportunities Agency and Nova Scotia Economic Development.

The addition to the current Animal Science Building provides students with the opportunity to work with either fresh water or salt water finfish and shellfish. Some of the cultured fish include salmon, trout, Arctic char, American eels and striped bass. European oysters, American oysters, hard shell clams, soft shell calms and blue mussels are being conditioned for spawning. In the new algal production facility one can find everything from 125ml sterile flask cultures of about seven different phytoplankton species to 15 130l algal cultures bubbling in tubes that are about two metres tall. It is in this algal production facility where the food for the shellfish is grown.

The 12,000 square foot facility includes a classroom and many systems of tanks capable of holding finfish and shellfish of both current and emerging economic importance to Atlantic Canada.



A view of the completed Aquaculture wing as seen from behind the Animal Science Building.

The specialized tank systems are controlled at a range of temperatures including recirculating and batch systems. The recirculating systems are one of the most sophisticated recirculating units in Canada. The aquaculture facility space is extremely well-utilized. Amid the various types of different tanks one can see recirculation units, UV light sterilizers, pumps, oxygenators, filters, titanium chillers, pipes, valves and even a stainless steel cat walk which houses additional equipment for which there would otherwise not be floor space. Amongst the equipment one can find fourth year students keenly working away on their final year major research project and graduate students collecting data which will be critical to their Masters thesis. Many of these researchers are evaluating nutritional

requirements or physiological aspects of a selected species. The facility can accommodate 25 more students in the Aquaculture program per year. Students using the centre have access to Aquaculture resources in the College's MacRae Library.

"By investing in the College's training facility, we're helping to supply Nova Scotia's Aquaculture industry with the skilled, knowledgeable workforce it needs to grow," said Health Minister Jamie Muir on behalf of Economic Development Minister Gordon Balser. "This facility will produce more knowledge through research and more professionals capable of managing Aquaculture businesses, generating more exports, and growing the economy in rural Nova Scotia."

Other government partners have helped to build and run the centre. The Nova Scotia Departments of Transportation and Public Works and Agriculture and Fisheries (formerly Agriculture and Marketing) jointly contributed \$1.5 million to the centre's construction. The provincial Department of Fisheries and Aquaculture is providing the services of a fish veterinarian while the federal Department of Fisheries and Oceans is providing library resources and researchers to assist in graduate training.

The centre will host specialists and professors from other institutions to increase the College's research capability.

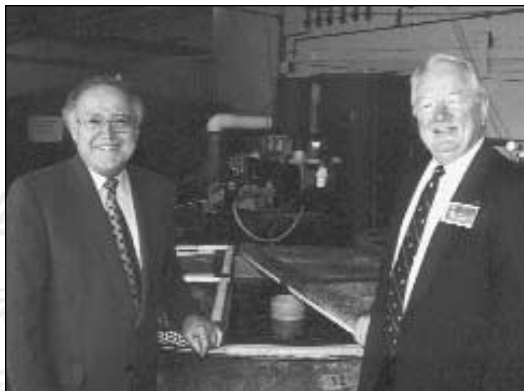


Algologist Jennifer Collins explains to Dr. Jamie Muir how technicians at the facility will grow algae in a variety of Kalwall tubes to feed shellfish at the facility during tours of the Centre.

The Employment Prospects

Aquaculture is a growing industry. Canada's Aquaculture industry has increased from \$33,000 in 1991 to \$630,000 in 1999. With the harvest from the capture fishery having leveled off at 60 million metric tonnes (mmt), the total projected demand of food grade seafood which is at 85 mmt in year 2000 is expected to increase to 115 mmt in the year 2025. The demand for individuals qualified in Aquaculture can be expected to grow greatly in the future. Thus graduates from the program are employed in all areas of Aquaculture including farm production, hatchery management, wet lab technicians, graduate work, teaching and research. Many Aquaculture companies are actively recruiting on the NSAC campus. One such company is Nutreco, a large multi-national conglomerate with divisions all over the world. One is Marine Harvest Canada. Marine Harvest Canada includes; Paradise Bay Seafarms, Big Tree Creek, and Kyuquot Sound Farms Ltd., all of which are located in British Columbia.

Last spring representatives from Marine Harvest Canada were on the Nova Scotia Agricultural College campus to recruit stu-



Louis Deveau, CEO, Acadian Seaplants Ltd., and NSAC Principal Dr. Garth Coffin tour the aquaculture facilities during its official opening. Acadian Seaplants employ many NSAC graduates from a wide variety of programs within their facilities.

dents for their respective organizations. Marine Harvest Canada knows that NSAC grads are well-prepared for the tasks at hand and wanted some Aggies on their team. Marine Harvest Canada said that NSAC graduates have completed an intensive and broad based course that helps make them possible candidates for positions with the company. Being from the East Coast, graduates help complement the well-rounded staff that already exists at Marine Harvest Canada.

Marine Harvest Canada will be back on campus this Spring to recruit more graduates and part of what will likely become a yearly trip. At the time of their presentation a 1999 grad, Travis Hayter, was already working at the Kyuquot Sound Farms Ltd. location.

The Nova Scotia Agricultural College currently has three alumni working for Nutreco. Travis Hayter ('99) works for Kyuquot Sound Farms Ltd, Michael Wambolt ('00) works for Paradise Bay Seafarms and Phillip Redmond ('00) works for Big Tree Creek.

Graduates indicated they went to British Columbia for the experience it offered. The industry in Nova Scotia unfortunately



Tilapia farming in Honduras. Nova Mariculture's Brian Ives is on the left.

One of AgriTECH Park's resident business is making waves in the aquaculture and agri-food sectors. Nova Mariculture is forging forward under the experienced direction of Brian Ives.

Ives and his company moved into AgriTECH Park on November 1st. Nova Mariculture's mission is to service its clients with appropriate technology in aquatic farming and to define and maintain the "nutrient integrity" of processed products. So far, Ives has found three potential projects. Ives sees the importance of taking

Not Another Fish Story!

advantage of the many networking and business development opportunities available to AgriTECH clients. He has met a number of fellow entrepreneurs from AgriTECH's sister incubators and sees many more opportunities. "It appears to me that my move to the Park was a smart decision," said Ives.

Yet, Ives has built his career on maximizing opportunities. He has worked in aquaculture for 25 years. After working for the Department of Fisheries and Oceans for five years, Ives found himself attracted to entrepreneurialism, something he attributes to his independent nature. Wanting to learn more about business, Ives enrolled in the Nova Scotia Agricultural College for a directed study program in farm management that focusses on aquaculture. Since his graduation, he has worked with a series of experts in the field, at one point selling his first company to Clearwater and then purchasing the processing facility back! His present

company is a long-term spin-off of the original.

Ives' work has taken him all over the world, from Canada's two coasts to Europe, from Central America to West Virginia and Tennessee. According to this entrepreneur, his travels and work on varied, cutting-edge projects have driven him to innovation, constantly questioning the status quo in his industry.

"The opportunity to consolidate my efforts from my years in aquaculture is both exciting and a challenge," said Ives.

His vision for his company is clear: to develop a fully integrated farming/food processing company with which he will consult. If his track record of parlaying innovative ideas into reality is any indication, it is only a matter of time and talent!

For more information on Brian Ives and Nova Mariculture:

e-mail: bhives@ns.sympatico.ca

phone: (902) 896-7260.

has not yet reached the heights it has in British Columbia, so BC offered an exciting opportunity for these new grads.

The Aquaculture degree program has prepared these students well for the type of work they are currently involved in at Marine Harvest Canada. Phillip says, "I use the knowledge that I learned everyday at the hatchery to perform general fish husbandry as well as run the recirculation systems on site. Other valuable assets are things such as; fish health and finfish production. A lot of the concepts learned in these courses are applied everyday."

The hours are long and the work hard, but the pay-off is worth it to these three graduates. On top of the skills they are learning, they all find that the growth potential within the company is huge. In the short time that Travis has been there, he is already an Assistant Manager of a site.

Travis would like to come back to the east someday and start his own farming endeavor. He feels that the experience he is gaining now will equip him to start his farm with some sound knowledge and the practical hands-on experience he needs to make a go of it in Nova Scotia.

When asked if they would recommend this career path for other Nova Scotia Agricultural College graduates, all alumni stated that if a person liked hard work and loved the outdoors, this was the job for them! Phillip also added that, "...the facilities and staff are terrific and provide a great place to continue learning about what interests me."

Apart from the fact that the experience they are gaining will look great on a resume, these alumni all say they really love their job. Mike has said that, "It's a lifestyle out here, and I love every aspect of it!"

The hours are long and the work hard, but the pay-off is worth it to these three graduates. On top of the skills they are learning, they all find that the growth potential within the company is huge.

Faculty & Staff



Dr. Derek Anderson

Head Department of Plant and Animal Sciences

Area of expertise: Fish Nutrition

"Aquaculture complements animal agriculture. The new Aquaculture physical plant combined with the existing animal science capabilities provides an excellent research and teaching environment for our Aquaculture people."



Paul MacIsaac, Aquaculture Technician

Area of Expertise: Fish physiology

"We will have the opportunity to simulate many aquatic environments in Atlantic Canada in our aquarium unit plus in our teaching and research labs."



Jennifer Harrison, Aquaculture Technician

Area of Expertise: Algae culture and shellfish production

"Our new labs provide students with the ability to grow with an industry that is becoming more and more reliant on better technology and research."



Dr. Jim Duston, Assistant Professor

Area of Expertise: Finfish aquaculture

"Recirculation systems with both temperature and salinity control provide great scope on both teaching and research fronts."



Dr. John Blanchard, Professor Aquatic Engineering

Area of Expertise: Aquaculture Engineering and post harvest technology

"I am looking forward to hands-on engineering applications for my students in the new facility."



Dr. Cathy Enright, Associate Professor

Area of Expertise: Shellfish Production and Research

"The new aquaculture wing will allow for greater 'hands-on' labs for the students and research opportunities."

Cathy started at NSAC in 1986, completed her Ph.D at Dalhousie majoring in Marine Biology. Prior to starting at NSAC she was the Aquaculture Coordinator for Nova Scotia for seven years.

Scholarship Students Honored at NSAC

Outstanding academic performance was honoured at the Nova Scotia Agricultural College with the presentation of more than \$600,000 in scholarships and bursaries — the highest in the College's history. The award presentations were made on Wednesday, Oct. 25, 2000 during the school's annual Autumn Assembly program.

Autumn Assembly at the Nova Scotia Agricultural College provides an occasion both to recognize the College's scholarship students and acknowledge the contributors to the College's awards program. A number of new scholarships and bursaries were awarded for the first time including those provided by the NS Animal Breeders Co-op, the Nova Scotia /Newfoundland Branch of Holstein Canada and the Taste of Nova Scotia Quality Food Program. Other scholarships were established over the past year as memorials to Allan A. Saunders, Gordon B. Kinsman, Bonnie R. Haviland and Michael Whidden.



Dr. Charles Eaves is recognized as a practical man, dedicated to practical solutions to real problems in both professional and community work. He is someone who appreciates the rigors of science, the importance of social values and the virtues of generosity and has used all three to make the world a better place.

In addition an Honorary Doctorate was awarded to Mr. Charles Eaves, of Upper Canard, Nova Scotia. Charles A. Eaves is internationally recognized as a pioneer in the development of controlled atmosphere (CA) storage for fruits and vegetables. His work on post-harvest physiology and technology throughout a 40-year career has contributed greatly to the development of the fruit and vegetable industry in Canada and the US. In addition, Mr. Eaves also performed pioneering research in the role of nutrients such as potassium and calcium in fruit quality as well as ground-breaking work in the physiology of fruit ripening.

Mr. Eaves is a Fellow of the Agricultural Institute of Canada and an Honorary Life Member of the Canadian Society for Horticultural Science, the Nova Scotia Fruit Growers Association and the New Brunswick Fruit Growers Association. He also earned distinction with the Canadian Army during World War II, rising to the rank of Lt. Colonel.



Cliff Retson Memorial Bursary

In memory of Cliff Retson, Class of 1934, a \$750 bursary is awarded annually to an international student studying at NSAC. Dr. Bill Jenkins, Past-Principal, is shown with this year's recipient, James Wani, Sudan.



NSAC Alumni Association Scholarship Winners

Clint McLean, President, NSAC Alumni Association, is shown at the time of the College's Autumn Assembly last fall with the recipients of the NSAC Alumni Association Scholarships. Left to right: Kathryn Foote, Lower Sackville, NS, a 1st year Animal Health Technology student, and Elizabeth Wright, Kentville, NS, a 1st year Engineering student.



Rhonda Rae Rumboldt Memorial Scholarship

The Rhonda Rae Rumboldt Memorial Scholarship is awarded annually to an outstanding final year B.Sc.(Agr.) student who has provided leadership and involvement in the College community. Dr. Garth Coffin, Principal, is shown with this year's recipient, Kelly Bowes, Dartmouth, NS, a 4th year B.Sc.(Agr.) student majoring in Plant Science.

Atlantic Agricultural Hall of Fame Inducts Four New Members

The Atlantic Agricultural Hall of Fame inducted four new members during its annual recognition ceremony Wednesday, October 25, 2000; two of which were NSAC alumni. Other inductees included J. Eric Hammill, born in

1932 and raised in the Lower Freetown/Newton community in Prince Edward Island and the late Thomas Wilhelm Brown (1906-1976) born and raised in Musgravetown, Newfoundland.

Donald Stewart Cox, Class of 1946



The Honourable Ernie Fage, Minister of the NS Department of Agriculture & Fisheries presents Don Cox with a plaque during the induction ceremony.

Donald Stewart Cox was born in 1928 and raised in Princeport, Colchester County. He is a graduate from the Nova Scotia Agricultural College and Macdonald College with a Bachelor of Science (Agriculture) and Mount Allison University.

Don's influence in the agricultural industry began very early in his career. Through his early work with 4-H clubs, as a 4-H

Representative, and later through his work as Agricultural Representative, Don promoted agriculture and encouraged new ideas and programs to those involved.

But perhaps the career he enjoyed as the Provincial Swine Specialist best shows the aforementioned attributes. To understand Don's contribution to the industry you must consider his role in both the commercial and purebred swine industry. When Don took over the Swine Department in 1963, Nova Scotia had 1600 producers shipping approximately 55,000 hogs. Don knew that the only way the industry could prosper with our high feed costs was to have genetically superior hogs.

Therefore he persuaded the government of the day to assist producers to purchase better boars with a boar bonus assistance policy. These boars had to have superior performance and had to be registered purebreds.

As time and money allowed a quality premium was paid to producers to encourage them to produce better hogs and use superior genetics. Don worked very closely with the purebred

Don Cox's ability to bring people together to work toward common goals brought many benefits to the communities in which he has been involved.

Continued on page 12

Scholarship News!

It's been another significant year for growth in the scholarship program at NSAC. A number of new scholarships and bursaries were awarded for the first time at Autumn Assembly in October. Significant increases were also received from a number of current scholarship donors throughout the year as well.

Sincere thanks are extended to the donors of new scholarships made available to NSAC students this year. The Nova Scotia Animal Breeders Co-operative have committed \$2,500 for scholarships for NSAC students for each of the next four years. Two NSAC scholarships will be awarded to Nova Scotia students studying Animal Science whose farm backgrounds, course and project work and career interests reflect an interest in the dairy or beef industry; the Nova Scotia/Newfoundland

Branch of Holstein Canada are providing a \$500 bursary to a second year technician student from Nova Scotia or Newfoundland with interests and involvement in the dairy industry; Barb Whiston, Class of 1990, has established an award for a 2nd year Animal Health Technology student in memory of Bonnie R. Haviland; the Taste of Nova Scotia Quality Food Program has provided for a \$1,000 scholarship for a Nova Scotian whose course and project work, summer employment and career plans, reflect a commitment to rural communities; Mrs. Ann Rose of Fayetteville, New York, USA, has established the Ted Rose Memorial Bursary fund to provide for an annual bursary to a student who plans to operate a livestock farm following graduation.

Appreciation also goes to scholarship sponsors who have increased their scholarship contribution this year. The Dairy Farmers of Newfoundland and Labrador,

formerly known as the Newfoundland Milk Marketing Board, have increased their scholarship contribution by \$1,000. Their scholarships, which will be known as the Eric Williams Memorial Scholarships, will now provide four \$500 scholarships to students from Newfoundland and Labrador entering studies at NSAC. Compass Group Canada, formerly known as Beaver Foods Limited, increased their scholarship contribution from \$2,000 to \$4,000. The Nova Scotia Blueberry Producers Association of Nova Scotia raised their scholarship from \$500 to \$750.

For information on scholarships at NSAC, including how to make a donation to an existing fund or establish a new scholarship fund, please contact Brian M. Crouse, P.Ag., at the College's Awards Office. Phone: 902-893-6729, Fax: 902-895-4547, or Email: bcrouse@nsac.ns.ca



breeders and convinced them to work together. In fact, Wendell Carter, a long time Landrace breeder and past President of Canadian Landrace, states that one of Don's greatest strengths was his ability to get the breeders to cooperate. The breeders then worked together not only in sales but also, more importantly, to import breeding stock from the U.K. and Europe.

At the time in the 1960's and through to the present, these importations have added untold benefits to our industry and for years were the envy of the rest of Canada. Don represented Nova Scotia at the Swine Record of Performance meetings for over 20 years and served two terms on the executive. As part of his dedication, Don also encouraged the use of the Central Swine Test Stations with the result that the Maritime Test Station has always been well used by our breeders.

Allan Adolphus Saunders, Class of 1945



Mr. Paul Jensen, Manager, Livestock Production Section Agricultural Development of the New Brunswick Department of Agriculture, Fisheries and Aquaculture presents Mrs. Sylvia Saunders with a plaque during the induction ceremony.

The late Allan Saunders' contributions to the agricultural industry in New Brunswick were far reaching and long lasting. Allan was raised on the family dairy farm in Petitcodiac, New Brunswick. It was there that he first gained an appreciation of the positive impact of progressive farming practices on rural life. Development of better farms was to become the focus of his life's work over a career in agricultural extension that would span 41 years.

Allan received his post-secondary education first at the Nova Scotia Agricultural College and later at Macdonald College of McGill University where, in 1947, he earned a Bachelor of Science degree in Agriculture. After graduation he accepted a position with the New Brunswick Department of Agriculture as Agriculture Representative in Chatham. He held this position until 1953 when he was transferred to Moncton.

In the early years, Allan worked tirelessly to organize farmers and promote improved farm production and marketing practices. He appeared regularly on radio and television, served as an associate member on the Board of Directors of Coop Farm Services, and was a founding member of the Atlantic Field Crops Committee. He championed improvements in forage quality and the expanded use of alfalfa in forage production systems across the Maritimes.

In 1986 when Don retired, the Nova Scotia hog industry had grown to 250,000 hogs marketed annually and had enjoyed the highest commercial index in Canada for many years. Since his retirement Don has volunteered much of his time with the Nova Scotia Exhibition Commission which also oversees the Provincial Exhibition and the Truro Raceway.

Don and Eleanor Cox have two daughters, Katherine and Donna.

Don Cox was nominated by Pork Nova Scotia in recognition of his tremendous contributions to agriculture. It is fitting that Don Cox becomes an Inductee into the Atlantic Agricultural Hall of Fame.

In 1978 Allan took on new responsibility as a Dairy Specialist with the New Brunswick Department of Agriculture. In the years that followed, he had considerable impact on the development of New Brunswick's expanding dairy sector. His association with leading research and extension colleagues in Maine and across North America resulted in numerous short courses, exposing New Brunswick dairy farmers to outstanding speakers and leading-edge technology. Annual farm tours allowed farmers to observe new developments in dairy housing or forage crop production and became a regular feature of Allan's extension program until his retirement in 1988. Allan understood the value and importance of dairy genetics and was a great promoter of breed improvement. He served as President of the New Brunswick Holstein Branch from 1992 to 1994. He was an early advocate of embryo transfer technology and was actively involved in the development of many dairy shows and sales.

In the early years, Allan Saunders worked tirelessly to organize farmers and promote improved farm production and marketing practices.

Despite the demands of a busy career, Allan was deeply committed to his family, church and community. Over the course of his life, he was the recipient of many awards. These included the James Robb medal presented in 1979 by the New Brunswick Federation of Agriculture, an Honorary Life Membership presented in 1988 by the Moncton Area Soil and Crop Improvement Association and in 1994 induction into the New Brunswick Dairy Hall of Fame. During his last days, with the help of close friends, the Allan Saunders Memorial Scholarship was established at the Nova Scotia Agricultural College.

In retirement, horses became Allan's hobby. He and wife Sylvia were active members of the Canadian Morgan Horse Association and enjoyed driving and showing their beloved Morgans at fairs and special events.

Allan's advice and counsel were in strong demand by dairy farmers across the province and his guidance and encouragement played a valuable role in the lives of many New Brunswick farm families. He was nominated by the New Brunswick Branch of the Holstein Association in recognition of his outstanding contributions to the development of New Brunswick's dairy industry and which make him worthy of induction into the Atlantic Agricultural Hall of Fame. 🐾

New Scholarship Funds Welcome Contributions

A number of new scholarship funds have been established this year. These new funds are making scholarships available to students in a range of programs of study.

Although first awards have been made from each of these funds, they are all recently established and donations are welcome to all of the following funds:

Michael Whidden Memorial Award

Family and friends and many from the dairy industry in Nova Scotia responded quickly this fall to establishing a memorial for Michael Whidden who had completed one year of study in the Animal Science Technician program. This fund will provide an annual \$2,000 award to a student who has provided leadership in the College's Woodsmen's Team, combined with maintaining a sound academic record. Contributions can be made through the NSAC Alumni Association.

Class of 1950 Bursary Fund

Members of the Class of 1950 celebrated their 50th class reunion this year and acknowledged their 'golden' anniversary by committing to establishing a bursary fund. Nine thousand dollars has been received to date. The class has set an objective of creating a \$50,000 fund which will provide bursary funding to assist deserving students. Members of the Class of 1950 invite all others to contribute to their fund. Contributions can be made through the NSAC Alumni Association.

Dr. Chesley E. Smith Memorial Graduate Scholarship

The Dr. Chesley E. Smith (Class of 1952) Memorial Graduate Scholarship is awarded annually to a graduate student whose course and project work reflect an interest in Plant Science or Agronomy. Contributions can be made through the NSAC Alumni Association.

Gordon B. Kinsman Memorial Graduate Scholarship

The Gordon B. Kinsman (Class of 1947) Memorial Scholarship Fund will provide

NSAC Development & External Relations



Jim Goit

Executive Director of Development and External Relations, the NSAC finally has the opportunity to put a senior person into the role of getting a development office really moving forward. The NSAC is one of the last institutions to get into an organized fundraising program and has always relied on government for the majority of its funding. While both the Alumni Association and the NSAC Foundation have been active in receiving donations from individuals and business for some time, there has been little coordination or active solicitation. And the need is great. With the loss of more than \$1 Million of base funding from the Nova Scotia Government over the past six years and an increasing demand for top flight teaching and research programs, getting funds from all sources has become essential.

Jim brings to the position almost 25 years of experience in government and the agricultural industry. He has been a Soils

The NSAC is getting serious about an institutional development program. With the transfer of Jim Goit from the Department of Agriculture and Fisheries to the new position of

and Crop Specialist and Director of several branches in the Department of Agriculture and Marketing, leader of many technology transfer projects as well as active on many regional and national committees. Jim's planning and management skills will be put to the test in increasing the NSAC's profile in the community. As part of the fundraising process, Jim will be making contacts with a broad range of potential donors across the region.

The process of setting up a development office at the NSAC will take several months during the winter and spring of 2001. Several functions now scattered across different offices in the administration will be brought together into one team effort to service both the needs of the Alumni Association and the NSAC Foundation as well as provide support to communications, public and external relations programs. As the priorities for fundraising initiatives are defined, programs to meet those goals will begin to appear.

The NSAC is an excellent place for study and research in the field of agricultural science but just as the science and the industry it serves has changed dramatically in the past decades so must the way the NSAC raises the money it needs to carry out the work required. Working in partnership with all those interested in the NSAC we will be able to meet the challenges of the new century. 📞

for an annual scholarship to a graduate student in Horticulture at NSAC. As a tribute to the tremendous impact Gordon had on the blueberry and horticulture industry, the scholarship will be targeted to students conducting research work with berry crops, with preference given to students whose course and project work reflect an interest in the blueberry industry. Donations can be made through the NSAC Foundation.

Allan A. Saunders Memorial Graduate Scholarship

The dairy industry in the Maritimes and friends of the late Allan A. Saunders (Class of 1945) have established the Allan A. Saunders Memorial Graduate Scholarship Fund. An annual scholarship between \$3,000 - 5,000 will be awarded to a graduate student at NSAC conducting research

relating to the dairy industry. Contributions can be made through the NSAC Foundation.

The Canard Conservation Graduate and Undergraduate Scholarship Funds

Through the generous assistance of Dr. Charles Eaves (Honourary Doctorate, 2000) funds have been established to provide scholarships to students involved in course/project/research work on environmental issues. The funds provide for a \$2,000 scholarship to a graduate student and a \$500 scholarship to an first or second year undergraduate student from Kings County, NS.

Contributions can be made through the NSAC Foundation. 📞



The following project list outlines the international projects that NSAC International is currently involved with. Please feel free to contact us if you would like more information or have a new project idea.

Ghana

Agri-Entrepreneurship Training

NSAC and the Community Economic Development (CED) Centre of the Nova Scotia Community College (NSCC) are assisting Tamale Polytechnic of northern Ghana in training module development and course design relating to agri-entrepreneurship training. This project focuses mainly on women in the northern region of Ghana and aims to increase the capacity of these women to improve their standard of living. Other Ghanaian partners in this project are the National Bureau for Small Scale Industry, the Ministry of Food and Agriculture and the National Bureau for Women in Development. This is an Association of Canadian Community Colleges (ACCC) Canadian Colleges Partnership Program (CCPP) project led by NSAC.

NSAC Personnel Involved: Sam Asiedu, Mary Breen, Steve Russell, Lauranne Sanderson

Colombia

Development of a Training Program in Sustainable Agriculture at UFPS

The Universidad Francisco de Paula Santander (UFPS) has been asked to play a key role in "El Salto Social", the social leap forward, in the Santander region of Colombia. New curricula will be introduced at UFPS, faculty will be upgraded and new extension and outreach programs established with the assistance of NSAC through this project. Other project partners are the Universidad de la Republica Uruguay (URU) of Uruguay and Saint Mary's University (SMU). This is an Association of Universities and Colleges of Canada (AUCC) University Program for Cooperation in Development (UPCD) Tier 2 project led by NSAC.

NSAC Personnel Involved: Norman Goodyear, Bonnie Waddell, Sam Asiedu, Leanne French

Estonia

Developing Capacity for the Estonian Wild Berry Industry

NSAC is partnering with the Nova Scotia Department of Agriculture and Fisheries (NSDAF) and the Wild Blueberry Producers of Nova Scotia (WBPANS) in this project which involves the Estonian Ministry of Agriculture, the Estonian Agricultural University and the wild berry producers of Estonia. The purpose of this project is to assist the Estonian wild berry industry with production methods as well as management, marketing and extension support. This project is funded by the Canadian International Development Agency (CIDA) and is led by NSAC.

NSAC Personnel Involved: Randy Olson, Mary Breen, Dave Percival, Garth Coffin

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Jamaica

Technical Agri-Education in Jamaica

Presently, Jamaicans must leave Jamaica in order to pursue undergraduate studies in agriculture. The College of Agriculture, Science and Education (CASE) offers technical training in Jamaica and through this project, will develop the curriculum and the capacity to offer a complete Bachelor of Technology degree. The degree will be offered on site at CASE in Port Antonio. This is an ACCC CCPP project led by NSAC.

NSAC Personnel Involved: Diane Dunlop, Nancy Crowe, Claude Caldwell, Bonnie Waddell, Mike Whalen, Steve Russell, Linda Jack, Wayne Paquet, Jeff Hoyle, Leanne French

China & Vietnam

Community Based Conservation Management (CBCM)

The purpose of this project is capacity building in community based conservation management with partner institutions in China and Vietnam. This CIDA-funded project consists of a consortium led by Saint Mary's University with NSAC, University of New Brunswick (Saint John), DalTech, Xiamen and Fujian Agricultural Universities in China and the Vietnam National University. This is an AUCC UPCD Tier 1 project.

NSAC Personnel Involved: Dian Patterson, Claude Caldwell, Mary Breen, Ali Madani, Rob Gordon, Gary Patterson, Gefu Wang-Pruski, Shannon Kilyanek, Debbi Levy-Kay.

Gambia

Development of a University for the Gambia

NSAC is working with Saint Mary's University (SMU) to assist a number of institutions in the Gambia to develop university level programs. This is an AUCC UPCD Tier 2 project led by SMU. NSAC Personnel Involved: Bernie MacDonald and Mary Breen

Note: Both the ACCC CCPP and AUCC UPCD programs are funded by CIDA.



In the Pipeline

New Projects

NSAC has proposals in various stages of development for projects in China, Ghana, Indonesia, Malawi and the Philippines.

Canada-EU Consortium for Internationalization of Curriculum in Agriculture, Horticulture and the Environment

The NSAC is the lead institution for a program funded by Human Resources Development Canada (HRDC) and the Department of Foreign Affairs and International Trade (DFAIT) to internationalize curriculum in agriculture, horticulture and the environment. Other program partners include McGill University, the University of British Columbia, Writtle College (United Kingdom), Häme Polytechnic (Finland) and The Royal Veterinary and Agricultural University (Denmark). Internationalization of the curriculum will be addressed by developing a program which facilitates the movement of students across the Atlantic to study in their field at a partner institution and by developing distance learning opportunities for students at partner institutions.

The push for internationalization of the curriculum is based on the need to:

- Prepare graduates to work in the global marketplace.
- Develop an international outlook among graduates so that they can easily adapt to the mobility and flexibility required in the current job market.
- Develop international contacts in marketing, establish creative links and

initiate ongoing knowledge and information exchanges.

- Introduce students to new, alternative and innovative technologies and solutions.
- Develop the attitude that creative solutions to problems may have been addressed elsewhere and that ongoing sharing of knowledge will stimulate local research.
- Create graduates who will think in terms of global markets and global solutions to problems, even when working at the local level.

This project will provide the opportunity for 92 students to participate in either learning via distance or semester abroad programs. Semester abroad study periods will commence in January 2002. In addition the program will foster faculty exchange and cooperation and use of the European Credit Transfer System (ECTS) by the Canadian partners. The ECTS allows students access to a standardized system of credit and grade transfers between cooperating institutions in Europe, North America and other parts of the world.

NSAC Personnel Involved: Carol Goodwin and Leanne French

What's New at the NSAC Career Services Office!

Well, the fall of 2000 has turned out to be a great one at the Career Services Office. Our job numbers are up from last year, the employment rate of 2000 grads is as high as it ever has been, we have an extra staff member and a new staff member, and have already had two employers in to recruit 2001 graduates.

A total of 832 job notices were posted through the College's Career Services Office during the 1999-2000 year. This is a 5% increase over the previous year. Job notices have shown steady increases over the past five years. The job market for agricultural graduates is strong. Delegates attending the annual meeting of the Canadian Association of Diplomas in Agriculture Program in July were told there is a shortage of agricultural diploma graduates to meet the needs of the agricultural industry nationally. That situation is reflected here in the Atlantic region.

Employment	Technical Grads	Degree Grads
Farms	18.1%	13.1%
Private Sector	48.6%	19.2%
Public Sector	4.2%	13.1%
Continuing Studies	12.5%	30.3%

Joining our team this year is Sandra Murphy. Sandra is a familiar face around campus, having held different roles, her most recent being the administrative assistant for the Humanities Department. One of her first activities with the Career Services Office was Autumn Assembly. Sandra quickly threw herself into the preparations with the rest of the team like she had been here for years. Her quiet voice and personable demeanor make Sandra an excellent addition to the Career Services Office team.

This summer we were approved, through the Career Starts program, to hire a new grad for a 49 week internship at our office. Rebecca Veenhuis, an AC grad of 2000, was hired as the Career Development Coordinator for our office. Already Rebecca has organized a full week of events for Canada Career Week, seen over 20 students for one-on-one resume cri-

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We've moved to 24 Pictou Road!

Please feel free to drop by and visit us.

For further information regarding international activities at NSAC, please contact:

Mary Breen, Project Officer
NSAC International
email: mbreen@nsac.ns.ca
Ph: (902) 893-6252

Mike Whalen, Dean
Internationalization
email: mwhalen@nsac.ns.ca
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Leanne French, Manager
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Visit the NSAC International web site at:
<http://www.nsac.ns.ca>

Embracing a New and Different Kind of Farming for the Next Century!



Unequivocally said, bigger is not necessarily better in terms of being able to farm successfully in the new millennium, figures Jeff Gunn, a Nova Scotia Agricultural College 1998 M.Sc. program graduate.

"Every situation is going to be different. Our farm is considered small by today's standards, but it complements what we are trying to do," says Gunn, whose wife, Gina, is a 1998 graduate of NSAC's Animal Science degree course.

Given the current price of dairy quota, rising production costs and the size of Jeff's parents' (Don and Sharon) farm, would not have been able to join the family business when they did had it not been for the family's on-going approach to using research and technology and for their abilities of taking advantage of new opportunities.

Speaking at NSAC's biennial Atlantic Agricultural Sciences and Technology Workshop recently, Gunn said it was by "conducting a careful market analysis and creating a sound business plan and continually offering a quality product," that his father's vision - and now his own - of an agri-tourism business became a reality.

Since 1969, the Gunn family farm, Stonehame Farm, in Scotsburn, Nova Scotia, has continually evolved. Jeff's father, Don, started the 350 acre operation by building one of the very first poultry cage barns in Nova Scotia and eventually was producing 50,000 pullets/year. At the same time, he also constructed a free-stall barn to raise heifers for local farmers and over time began milking his own purebred Holsteins.

However by the early 1980s, the future of pullet-growing was quickly becoming uncertain so the poultry side of the Gunn's operation was phased out. Not ones to have one door close without finding another to open, the Gunn's quickly converted the old pullet barn into an area for people to rent space to store their cars and boats.

By the mid-1990s, with four children getting close to graduating from university and the future of supply management starting to be considered precarious, "my father decided the farm wasn't big enough to support more than one family," said Gunn. "Expansion of the existing operation or exploring new possibilities would be necessary."

Researching new possibilities indeed. Today, Stonehame Farm's 30 cow purebred Holstein herd remains, as does supply management. But their operation has again evolved.

In fact, the Gunn's invested in technology and now their operation is being promoted worldwide on the Internet (www.stonehamechalets.com) as: "The Perfect Get-A-Way".

Over the past two years, the Gunn's have constructed nine log chalets and a lodge on top of a mountain five minutes from their dairy operation. Fitzpatrick Mountain on the Gunn's farmland overlooks three counties as well as down the Northumberland

Strait coastline and across to Prince Edward Island.

"It had always been a place of refuge and solace for us, but Dad decided with the growing tourism industry in Pictou County, it was time to share the view with the rest of the world. This was the beginning of our agri-tourism business - Stonehame Chalets," said Gunn.

In addition, the Gunn's 30-cow purebred Holstein herd has also remained a key facet of the family's new agri-tourism business plan.

"We have had more than 300 guests go through the farm since January 1st of this year," and "the key for us is the rural side of our business and promoting agriculture and increasing agricultural awareness in our guests," he said.

In addition to activities that typical chalet renters have come to expect, like: hiking trails, mountain biking, bird watching and cross country skiing excursions, the Gunn's offer very unique "Dairy Farm Visits". Stonehame Chalets offer their guests farm tours in order to explain the "processes involved in getting milk from a cow to a glass" as well as pass out written information about many other farming practices, in general.


"Farming and agricultural awareness are very important aspects of our business. We host many guests who come from large urban centers - many who have never seen a cow

being milked. Offering farm visits presents an excellent opportunity to educate and promote our industry to the people who have been far removed from farming and rural life," said Gunn.

In fact, Gunn said, of the 300 plus people who have visited their farm in the past year, "we never had any one of these people give us a hard time about farm practices. They were all interested and wanted to learn more. I like to think they went away knowing a bit more about agriculture than when they came in." Stonehame Farm and Chalets has "put us in the position to expand the farm in the future, if we so desire and provide the opportunity for my other siblings to join the business," said Gunn.

Stonehame Farm and Chalets currently has five full-time employees and ten part-time staff, including the Gunn family.

Their chalets are booked entirely during the summer months, Christmas and New Years", and have hosted guests from all over Canada, the US and Europe. Plans are already underway to provide sleigh rides, as well as the construction of a small barn close to the chalets for housing different species of farm animals for the guests to encounter one-on-one.

"Our business has evolved into what it is today because we have utilized new technologies and have recognized and have seized new opportunities," said Gunn. "I'm not saying everyone should go out and build log chalets, but my point is there are opportunities out there and diversification may be a better option than expansion, as it was for us." 



Jeff, Gina and Noah Gunn

'New Economy' Includes Farmers

If Agriculture wants to gain attention from the politicians and Canadian public, its image has to change. The modern farmer has to become the poster boy for the economy of the future.

Agriculture's image is viewed by many as something of the past. It is high-maintenance, consumes environmental resources, subject to volatile commodity prices and has unsolvable problems. Politicians, think-tanks, agricultural economists and others use terms such as "old economy" to describe agriculture, transportation, forestry and the oil industry, while the "new economy" includes the internet, e-commerce and new technology. Cruising down the high-speed information highway has become a more popular subject for politicians than policy on how to overcome the bumps along crumbling rural highways. The danger of allowing agriculture to be seen as "old economy" is that politicians are heralding the bright future of the "new economy" areas. They focus their attention and budget money on the latter. The first clues appeared at least two years ago. Diversification into high-value crops and agri-food processing was labeled as part of the new economy. An Agriculture Canada bulletin at the time said that "programming emphasis has shifted to development rather than subsidizing incomes." However, in this year's federal budget, the

term was reserved for tools including the Internet, e-commerce and high-tech communications. The government said it would make these accessible to rural areas. Little was mentioned about the preservation of traditional areas that have supported the Canadian economy; namely agriculture.

The president of Canada West Foundation, a Calgary-based think-tank, recently explained the need to convince others that Western Canada and particularly agriculture are parts of the future for the nation's economy. Roger Gibbons said the poster boy for the new western economy has become a young man on the West Coast sitting at his computer and having little interaction with society, since he never leaves his house. The poster boy should instead be a farmer in his tractor using a Global Positioning System. He's in touch with the outside world through his cell-phone. He's using biotechnology in the field and he has already obtained market and weather information from the Internet. If he has livestock, he may be using complex genetic information or a computerized dairy. Farmers have proven they are adaptable, innovative and modern. They're part of the so-called new economy and contribute greatly to the general economy. They always have and hopefully they always will. 📱

NSAC Creating Unique Faculty Position Dedicated to Climate Change

There are the talkers then there are the doers.

The well debated hole in the ozone layer is synonymous with climate change in any environmental conversation. But for the Nova Scotia Agricultural College (NSAC), it's going straight ahead and creating its own unique opening concerning climate change. The Atlantic Canada College has secured federal and private funding to create a one-of-a-kind faculty position dedicated strictly to making agricultural industry accepted practices better in order to substantially improve climate change and management.

NSAC is currently in the process of searching for a candidate to fill their new Research Chair in Climate Change.

"We're pretty excited about what it's going to offer. It will really be somebody who is going to dedicate their entire research program to climate change issues," says Dr. Rob Gordon, of NSAC's Department of Engineering.

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What's New, continued from page 15

tiques, written a number of career articles for different publications and spoken to several of the graduating classes concerning different career development events.

As part of our Career week celebrations we had many different speakers from all sections of the agricultural industry and career specialists in to talk about career opportunities. These speakers were; Nathan Archibald, Josh Arenburg, Robert Berard, Mary Breen, Glen Brown, Cathy Costandi, Brian Crouse, Steven Dadford, Helen Dorrington-Price, Paul Douglas, Amanda Dunfield, Kenny Faulkner, Len Gordon, Carla Hepburn, Tracey MacKenzie, Barb MacLaughlin, Robert MacMillan, Maria McCurdy, Gloria Merlin, Lawrence Nason, Jill Rogers-Langille, Bob Sweeney, Tracey Ungar, John Vaillancourt, Rebecca Veenhuis, and Robert Wooden. A big thank-you goes out to those individuals who took time out of their busy sched-

ules to take part in our events. The Career Services Office would also like to thank the donors who were gracious enough to contribute door prizes to our events. These donors were; Bible Hill Foodland, Blockbuster Video, Cavanaugh's Food Market, Centennial Cinemas, Canadian Imperial Bank of Commerce, Down East Communications, Frank & Gino's, Nova Scotia Agricultural College Principal's Office, Nova Scotia Agricultural College Bookstore, Subway - Pictou Road, Travel Cuts, Truro Home Video, Yould's Basic Stationers, Zodiac Home Entertainment Ltd.

Also as part of our Canada Career Week activities, the Career Services Office was pleased to host two representatives from Statistics Canada for an information session. They wanted to make our students aware of some great opportunities with the Census of Agriculture coming up. They are looking to hire approximately 40

people with agricultural training. This is an excellent opportunity for our students and we look forward to hearing the results from their nation-wide recruitment efforts.

The Career Services Office also recently hosted a group from Irving Moncton, which involved their corporate recruiter and seven Nova Scotia Agricultural College graduates. Putting on a panel discussion with our grads, they came in to recruit two graduates for positions as Management Trainees. The day was highly successful and the Career Services Office received many interested inquiries on their behalf. (For picture see article entitled *Around and About*.)

The staff at the Career Services Office would like to thank the students, alumni and employers who use our office, those who assist with our projects and everyone else for another successful year! 📱



Five Students Receive Industrial Postgraduate Scholarships

Three NSAC students were awarded Industrial Post-graduate scholarships from the Natural Sciences and Engineering Research Council of Canada (NSERC) valued at a minimum of \$19,300 each; a first for the College. An additional two were awarded several months later. To qualify for a scholarship, students must hold a first-class academic standing and be performing industry-based research for a company which must contribute a minimum of \$5,500 per year toward the research.



(L to R) Michelle Wall, Professor Glenn Stratton and Kim Pennie



(L to R) Scott Nauss, Marguerite Fortune-Phillips and Randy Peach



Kate Adams

Adams is Coach of the Year!

Kate Adams of the NSAC Rams was named the Atlantic Colleges Athletic Association Women's Soccer Coach of the Year.

The Award was voted on by member coaches in the six-team conference. Adams won the award in only her first year as Head Coach. After and 0-4-0- start to the season, Adams guided the Rams to a 3-2-1 record in their last six regular season games and the fourth and final playoff berth. Adams worked with 11 returning players and six rookies. Kate has also been nominated for the Canadian Colleges Athletic Association (CCAA) Coach of the Year Award. A CCAA selection committee determines the successful men's soccer and women's soccer candidate for each award.



Fred Hampton

Olympic Torch Scholarship Winner

NSAC Women's Basketball Coach, Fred Hampton was one of 11 Maritime recipients of an Olympic Torch Scholarship presented at Pier 21 on Thursday, September 7, 2000.

The scholarship, funded by Petro-Canada is worth \$8000 to coaches and allows them to be part of the National Coaching Institute. Fred is currently working on his Level 4 Certification. "My dream is not to coach in the Olympics but if I can make myself a better coach it's better for the program. That's what its all about."

NSAC Students Fair Well at Guelph Ag Challenge

Ag Challenge was held this year July, 5th-9th at the University of Guelph. NSAC team members included Aaron Mills, Andrea Martin, Darlene MacDonald and Paul Moffett. The team placed first and second in the presentations, second in the team challenge and third in the debate. Other teams which participated were University of Guelph, University of Saskatchewan, University of Manitoba and MacDonald College. Aaron Mills said "the trip was a great opportunity and a wonderful networking experience."



Leanne French

New International Centre Director

The College extends a warm welcome to Leanne French as the new Manager of NSAC International. Leanne is a native of Newfoundland and graduate of St. Francis Xavier and UNB with BSc. and MEd. degrees respectively. She comes to us from the University of New Brunswick where she was the Student

Development Coordinator. Leanne's office will be in NSAC International at 24 Pictou Road and her telephone number is 893-6726.

NSAC Awarded Four Canada Research Chairs from Government of Canada

The Nova Scotia Agricultural College has been awarded four Canada Research Chairs over the next five years from the Government of Canada as part of a program to retain the best Canadian researchers and attract the world's best minds to Canadian universities.

The program, which will create a total of 2000 Chairs at Canadian Universities, also aims to strengthen research excellence, increase research capacity, strengthen the training of highly qualified personnel, improve university capacity for generating and applying new knowledge and ensure effective use of research resources.

Two categories of Chairs are awarded to universities, based largely on their research record. A Tier I Chair carries funding of \$200,000 per year for seven years and is renewable based on performance. Tier II Chairs provide funding of \$100,000 per year for five years and are renewable once. The NSAC has been awarded one Tier I and three Tier II chairs to be filled over the next four years. These Chairs also carry an opportunity to apply for Canada Foundation for Innovation infrastructure funding at a level of \$125,000 per Chair, to be matched on a 60-40 basis by funds from other sources.

Novartis Agri-Golf Classic

The 4th Annual Novartis Agri-Golf Classic was held Friday, July 28, 2000 at Northumberland Links Golf Club in Pugwash with 31 teams participating. Winning teams were:



Overall, Shur-Gain 63

Reid McDiarmid, Dale Tedford, Steve Gordon, Dwight Grimm, Dave Colpitts



Alumni, Team Watts 65

Steve Watts, Arnold Hagen, Doug LeClair, Alex Rogers, Kyle Murray

Farm, Kentville Healy 67

Steve Healy, Stevie Healy, Audrey Ansems, Tim Ansems, Kyle Selig

Business, Shur-Gain 63

Putting Contest Winner *Dave Holmes, Lodi, California (1')*

Closest to the Hole *Doug LeClair, Kensington, PEI (8")*

Longest Drive Female *Jennie McInnes, Scotsburn*

Longest Drive Male *Steve Healy, Kentville, NS*

The 5th Annual Agri-Golf Classic will be held Friday, July 27, 01
Book the date !!

Abercrombie Country Club, New Glasgow, NS
<http://www.nsga.ns.ca/abercrombie/ab.htm>

Distinguished Alumnus Award Criteria for the Selection of Nominees for 2001

1. Nominees must be eligible for membership in the NSAC Alumni Association and have distinguished themselves in the field of agriculture or a related field and brought credit to the NSAC.

2. Nominees must have provided a good role model for the College and agriculture and made a significant contribution to agriculture through teaching, research, industry, extension or production or to society in general.

Please submit (no later than June 30, 2001) the name, address and phone number of your nominee to:

Alumni Association Secretary,
Box 550, Truro, NS, B2N 5E3

Please attach a brief biographical sketch of the nominee clearly outlining the contributions which qualify him/her as a candidate for the Distinguished Alumnus Award.



HOMECOMING WEEKEND 2000

Close to 100 alumni and their families were welcomed back to the Nova Scotia Agricultural College October 20 - 21, 2000 for the first ever Homecoming Weekend of the NSAC Alumni Association in celebration of the millennium and in conjunction with College Royal celebrations, Athletic Reunion activities and NSAC Open House.

A full schedule of events was planned in an effort to mix alumni with current students and various faculty members. The event was deemed a success and will be held again on October 20, 2001. Members of honor year classes 1 and 6 should start planning to celebrate with their alma mater.

The first NSACAA Silent Auction and reception was held on Saturday evening in Cumming Hall. All proceeds from the NSAC Alumni Association Silent Auction will support the NSAC Students Emergency Fund. This fund aids students who encounter unusually difficult financial hardship throughout the academic year. Items ranged from Box tickets to the Royal Winter Fair in Toronto to a handcrafted Adirondack chair to an antique apple peeler. Sincere thanks are extended to all donors without whose support the event would not be possible.



Silent Auction Committee (L to R) Brian Crouse, Class of 1975; Jim Goit; Auction Coordinator Mr. Dick Huggard Class of 1956; Bernadette Alain, Class of 1979; Judy Grant, Class of 1978 and Stephanie Rogers.



Judy Grant, Class of 1978 and her husband Alan Grant, Class of 1979 proudly pose with the two bags of sunflower seeds purchased during the auction.



Junior Class Shield Award NSACAA President Clint McLean with (L to R) Sheila Patterson, Life Secretary and Carol Versteeg, Class of '75, Reunion Organizer.



Intermediate Class Shield Award (NSACAA President Clint McLean with NSAC Principal Dr. Garth Coffin, a member of the Class of 1960.



Senior Class Shield Award (NSACAA President Clint McLean with Dick Huggard accepting the award on behalf of the Class of 1950.



Lester Palmer of Berwick Nova Scotia, Class of 1960 won a framed photograph of the Ship Hector launch in Pictou this past summer.



Members of the Class of 1975 shown at their 25th Class reunion

Class Shield Awards

Class Shield Awards were presented to those class years with the most graduates in attendance during Reunion weekend. Winners of the Junior Class Shield Award were members of the Class of '75 Intermediate Class Shield winners were the Class of '60 and the Senior Class Shield Award was presented to the Class of '50.



2000 Executive Committee 2001

President
Clint McLean ('79)

Past-President
Evans Estabrooks ('62)

Treasurer
Lori Kittilsen ('89)

Secretary
Don Allen ('63)

Guest Committee Member
Dr. Garth Coffin ('60)

Alumni Affairs Coordinator
Stephanie Rogers

Board of Directors

Retiring in 2001

John Hutchings ('78)
Roy MacKenzie ('73)
Barry Russell ('76)
Walter Termeer ('85)

Retiring in 2002

Nancy Crowe ('78)
Jeff Morton ('79)
Clinton McLean ('79)

Retiring in 2003

Bradley Briggs ('99)
Patricia Bishop ('99)
Steve Spinney ('86)

CHAPTER NEWS

Annapolis Valley Summer Garden Party



Annapolis Valley Alumnus Trish (Bishop) Oulton is shown in the centre talking with Alice Woodbury, left and Alice's mother. Alice graduated from West Kings District High School in June 2000 and enrolled in the Animal Science Technician program at NSAC in September 2000. She attended the Valley Alumni Garden Party to meet recent grads from the College and learn about campus life

Thanks to new Alumni Association Board members Brad Briggs, (Class of '99) and Trish (Bishop) Oulton for initiating the event. The Alumni Get-Together was a wonderful example of how the Alumni Association can help the College. It was a way to help put a face to people who have gone to the AC for students heading there in the Fall.

Thanks to the alumni who attended the garden party. Your active involvement in support of the

Alumni from the Annapolis Valley gathered at the home of Patricia, (Class of '99) and Josh Oulton, (Class of '96) in Greenwich on August 27. The Garden Party was an opportunity for new students coming to NSAC from the Annapolis Valley area in the Fall to meet with alumni from the College.

College's recruitment program is appreciated. Hopefully the Valley gathering will become an annual end-of-summer happening for new students.

Alumni in other regions are challenged now to hold similar events. 📞

Annapolis Valley Chapter Meeting

Come out and gather with friends. All NSAC alumni members and their families in the Annapolis Valley area are invited to a dinner and evening of entertainment on Friday, March 30, 2001.

For more information please contact:

Patricia Bishop: (902) 542-0293
oultan.bishop@ns.sympatico.ca

Brad Briggs: (902) 670-4249
briggs.bradley@cavendish-agri.com

Alumni Respond in Spades!

The Alumni Association reports on an active Fall of alumni giving back to the College.

At Homecoming Weekend approximately \$2000 was raised through the Silent Auction for the Student Emergency Fund. This fund provides relief funding for students who experience unplanned (and unbudgeted) financial hardship through the school year. Another \$200 has been received for the Student Emergency Fund through the Fall from individual alumni.

The Class of 1950 is setting up a Bursary fund in recognition of the 50th anniversary of their graduation from the AC. Nine thousand has been received as

of December 20th, 2000. The Class of 1960's 40th anniversary Class project was for funding for scholarships. Fifteen hundred has been received from this class.

Some wonderful contributions have also been received for other existing scholarship funds administered by the NSACAA. Fifteen hundred dollars has been received for the F.W. Walsh Memorial Scholarship fund and \$500 for the Donald E. Clark Memorial Scholarship Fund.

The Class of 1975 marked its 25th anniversary of their graduation from NSAC by sponsoring the construction of a brick patio at the Alumni Gardens. This fund received \$1160 from 26 members of the

class for the project. This is an on-going project of this class to support the Alumni Gardens. Another \$20 was also received this Fall for the Gardens.

Other donations have included \$500 to the Class of 1951 Fund and the \$150 to the Parker Cox Library Trust Fund. As well, more than \$1600 was raised from the NSAC Agri-Golf Classic for alumni scholarship support.

The Alumni Association is also very grateful for the \$775 that has come in from 14 alumni to the Annual Fund which enables the Association to continue to provide a broad range of programs and services to its members - the alumni of NSAC.



Barnyard Banter highlights the accomplishments of NSAC Alumni. If you have moved, earned a promotion or another degree, married, had children or have any other news you'd like to pass along to classmates, let us know. Email submissions may be directed to: srogers@nsac.ns.ca

Class of 1979

Thorne, R. Marie.....joined Novartis in August as their Senior Turf Specialist. Her area of focus will be the golf course sector, providing technical information to golf course superintendents. Will also be moving to Guelph, my old stompin' grounds, in November.

Class of 1980

Dawson, Mark.....After graduating from NSAC, I attended the University of Guelph and graduated in 1982 with a B.Sc. (Agr) degree in Agricultural Mechanization. I then moved to Alberta where I worked for a number of agribusinesses in both management and sales/marketing roles. I returned to Guelph in 1987 and continued to work in sales and marketing - primarily for a major farm publisher. In 1996, I started my own firm, On The Mark. I provide sales and technology training along with project management services for companies and individuals in agribusiness. Currently, I am under contract with the Ontario Retail Farm Equipment Dealers' Association (ORFEDA) and their joint venture technology company, Iron Solutions LLC. We provide services, lobbying, training and tools (paper, computer and Internet based) that help member dealers throughout Ontario and the Maritimes operate their businesses more effectively and profitably. My wife, Laura Taylor and I have one son, Roan, who will be two on Sept. 16. We have an older home in the centre of Guelph that holds all of us easi-

ly and has enough space left over for both my business and my wife's business, Laura Taylor Pottery. I think we'll be here for a long while <grin>.

I can be reached via email at mhdawson@otmt.com.

Class of 1985

Demone, Ruth.....Ruth is a lawyer with the Office of the Attorney General for Prince Edward Island engaged primarily in litigation in tax and administrative law matters. In her spare time she enjoys reading, golfing and scuba diving.

Class of 1987

Ochsner, Fran..... Is an Executive Assistant with GT Group Telecom

Class of 1988

Quintero, Abra (Haliburton)..... I was Abra Haliburton when I graduated 1988. Three children now and living/working in Metro Detroit. Loads of opportunities here!!! I am also working on my M.B.A. and (constantly) missing Nova Scotia. Hello Bluenosers!

Class of 1989

Manning, Dean.....Dean and Catherine Manning (nee Buchanan) -classes of 89 and 95 respectively. We now are farming with Dean's parents in Falmouth - beef, hothouses and vegetable market. We have two aspiring farmers now - Caylene is 2.5 yrs. and Andrew is 6 months.

Porter, Alan.....We wish to announce the birth of Natalie Jean, the daughter of Alan and Jennifer (93) (nee Picketts) Porter. Natalie was born on December 25, 2000, weighing 8lb 12oz. She was quite a Christmas present for big sister Ella and big brother Ryan.

Class of 1990

Jones, Kim..... married Cheryl in September 1998 and now have a baby boy, Morgan in April 1999. Kim is a business owner of Cow Comfort Plus

Willis, Andrew.....Presently, Andrew is working with CUSO as a project advisor to the Sustainable Upland Agriculture Project (SUAP) in Thailand and Lao PDR. This project is involved with promoting agricultural techniques based on Bill Mollison's Permaculture Guide, establishing fruit tree nurseries, encouraging small enterprise development, developing tradi-

tional healers/herbal medicine networks and strengthening community organizations. CUSO is a social justice organization implementing agriculture based rural development projects throughout the developing world.

Class of 1991

White, Allison.....Graduated in 91 & 93. Living in the Moncton, NB area. Been here for 7 years. Enjoy the area (it'll never be Newfoundland though...) still working in the Accounting Function at UPS - 5 years now. Hi to all my classmates and friends from AC 1989-1993. Interested in knowing how folks are doing. <dwaynali@nbnet.nb.ca>

Class of 1992

Vnn Campen, George.....George was happily married on July 24, 1999 to Janice McDonald from Cole Harbour. No immediate plans for any George Juniors yet. I am managing the family business, Tilly's Precious Pieces and am in the works of opening our first permanent retail store in New Glasgow.

Urquhart, Mark..... graduated in 1992 with an Agricultural Mechanical degree and joined Cavendish Farms on PEI as a Management trainee in October 1994 where he managed a potato growing operation. In April 1997 Mark moved to Cavendish Agri and took over as Manager of the Fertilizer Blending Operation in Salisbury NB

Class of 1993

Murchison, Karen.....Believe it or not I've settled down to a life of domestic bliss on Prince Edward Island. I'm married to John Elsinga and we have two children - Zachary who is 3 & Jessica who is 1.5. Additionally we have a third due early in 2001. John & I recently started our own small farming operation producing fresh culinary herbs, gourmet vegetables and fresh mesclun and field greens. We service the local food service market and are in the process of developing a value-added line. Just to maintain some semblance of financial security, I am currently working as the Interim Executive Director of the PEI Federation of Agriculture and am really enjoying it. As you can tell, I really do not have time to get into much trouble lately. I'd love to hear

from anyone else out there of the same vintage, I'm always interested to hear how everyone is making out. <karen.john@pei.sympatico.ca>

Fisher, Tim.....graduated in 1993 with a degree in Plant Science and worked for the Department of Agriculture as a summer student and upon graduation joined full-time. In 2000 Tim joined Cavendish Agri Services as Manager of Truro Division.

Porter, Jennifer (nee Picketts).....We wish to announce the birth of Natalie Jean, the daughter of Alan (Class of 1989) and Jennifer Porter. Natalie was born on December 25, 2000, weighing 8lb 12oz. She was quite a Christmas present for big sister Ella and big brother Ryan.

Class of 1994

Corcoran, Kelly.....Hi AHT Class of '94. I am still working in St. John's (since '95) at a small animal clinic. Drop me a line, let me know what you're at! <ahtrvt@yahoo.com>

Tibbetts, Sean,.....I recently accepted a position with the Institute for Marine Biosciences at the National Research Council in Halifax as "Fish Feed and Nutrition Technologist" doing aquaculture nutrition research. Although I recently spent a few days in Toronto with Phil Hemphill and Lisa, I would love to hear from the rest of the gang (this means you....Holland Cahill, Myles Whitacker)

MacDonald, Hugh & Colleen MacDonald (Miller) Class of 1996 were married on October 14, 2000 in Makinsons, Newfoundland. Hugh and Colleen are living in Embro, Ontario. Hugh is herdsman for Donker Lane Dairy & Colleen works for Gencor. Thanks to those who sent gifts, we really appreciate your thoughtfulness.

Woodworth, Shelly..... graduated in 1994 with a degree in Environmental Biology. Shelly worked for the government as a research technician until she joined Cavendish Agri Services (Fundy Fertilizers) in March of 1995. She is a full-time Agronomist and is in charge of crop Scouting during the growing season and in the winter she studies research plots.

Class of 1995

Miller, Melissa.....I graduated in 1995. My husband (Brad) and I had a baby girl April 6th,2000.

Williams, M. Corey (Snotty) Hello fellow grads of '95!! Not too much new here. Worked in Pugwash for a few years where I met my wife, Terra (Keiver). Moved out to Red Deer AB in January and have been working. Miss the woodsmen competitions but my sister (grad of 2000) keeps me up to date on some things. Drop me a line sometime at MCWILLIAMS72@HOTMAIL.COM See ya later!!Snotty

Class of 1996

Jeffery, Scott..... I'm out in BC now. Moved out in Sept/99 b/c I found a nice job as a fish hatchery supervisor on Vancouver Island. I moved from Harvey Station, NB, where I was managing a fish hatchery

Peddle, Kim..... is an Environmental Chemist with Philip Analytical.

Martin, Lisa (Henderson) Graduated from Animal Science, married in Jamaica July '99, currently employed with the provincial department of Agrifoods and enjoy living home in Newf! I would love to hear from any long lost friends. Lisa (Hedder-son)Martin <lisamartin@mail.gov.nf.ca>

Burns, Michelle.....Michelle graduated in 1996 with a degree in Animal science and then joined Cavendish Farms in May of 1999. She is currently researching, monitoring and testing plots that will lead to improvements for Cavendish Farms.

Class of 1997

Joudrie, Teresa (Hauser)..... Ag. Chemistry married Kevin, July 29th, 2000 in Truro. Graduated with Masters in Environmental Management in May 2000 and am still working at the NSAC.

DeMerchant, Amanda (Jenkins) I married Troy DeMerchant in 1999 and moved to Plaster Rock, NB. There we took over his parents dairy farm. We now own and operate the farm. In July 2000, we celebrated our first born, Travis. wendt@nbnet.nb.ca

Chesley, Jason.....Currently working with my family on our dairy farm. I miss all the great people at NSAC!

Sanderson, Pam..... successfully defended her Masters Thesis at the NSAC and is working with Agricultural and Agri Food Canada at the Potato Research Centre in Fredericton NB,.

Burns, Wendy..... graduated in 1997 with a degree in Pest Management and a minor in Environmental Biology. Wendy started with Cavendish Agri Services in the Spring of 1998 weighing fertilizer trucks. By the fall she had moved into the research area. Wendy is now an Assistant Agronomist in charge of surveying 300 winter storage buildings.

Class of 1998

Whyte, Tammy...Congratulations are extended to Tammy Whyte who recently received the Stuart Allaby Graduate Studies Award valued at \$1000 (Supervisors: Drs. Fredeen and Martin).

Genge, Annette..... B.Sc.(Agr.) Agricultural Economics, is Micro Business Lending Service Coordinator for Rising Sun, the Economic Development arm of the town of St. Anthony in Newfoundland. The position is in partnership with the Newfoundland Federation of Co-operatives and Human Resources Canada. Annette is taking courses towards a Certificate in Human Resource Management and plans to write the Canadian Securities exam after Christmas.

DeMerchant, Troy I married Amanda Jenkins in 1999. We now own a dairy farm which was previously my parents. In July, our son Travis was born, weighing 8lbs 9ozs. wendt@nbnet.nb.ca

Smith, Julie.....Hi everyone! Hope you are all doing fantastic!!! I was out west living in the mountains of Alberta for two years and then the Yukon. Now I am working as an intern with DFO/Connors in St. Andrews, N.B. doing haddock research. It would be great to hear from some long lost buddies!!!

Lutz-Cameron, Tonya.....Married Brad Cameron in Aug '97. In March 2000 we had a beautiful baby boy, Mason Edward Cameron. Right now I am on maternity leave but will return to Central Nova Animal Hospital as the technologist. Brad is still employed at Oakfield Golf and Country Club in Enfield. All is well in Truro!

Glass, Amy (Chisholm)..... is currently a technician with the Department of Fisheries and Oceans.

Malay, Billy..... successfully defended his Masters Thesis at the NSAC. He has recently begun a new career in Cherryfield Maine working for Cherryfield Foods Inc.,

Turner, Sarah.....moved to Edmonton in May 2000 and began work on May 15th, 2000 as the Alberta Coordinator for the Canadian Quality Assurance program for pork producers with Alberta Quality Pork. During the past year and a half, Sarah was Recruitment Coordinator of the Nova Scotia Agricultural College. aqp@compusmart.ab.ca

Whelan, Trina.....Graduated from Economics in '98. Big hello to all my old friends. I am now working as the Labrador Regional Coordinator for Futures in Newfoundland and Labrador's Youth. (FINALLY!) Hope to hear from some AGGIES. pdwhelan@hotmail.com

Brake, Michelle.....After working for ADLIC in PEI for two years I moved back to the rock. I starting working with the NF Dept. of Agrifoods this past summer as a field scout and am really enjoying it. Looking forward to any old friends dropping me a line sometime. Take care. <michelle-brake@hotmail.com>

Class of 1999

Upham, Stacey (Lindholm)...moved out to BC and worked with one of the fish farms for a trial period. Then landed a contract position with the Ministry of Fisheries. Finally ended up working with the BC Salmon Aquaculture Policy Framework working on the relocation of farms.

Jamieson, Terra.....Congratulations are extended to Terra Jamieson who recently received the Canard Conservation Graduate Scholarship valued at \$2000 (Supervisor: Dr. Stratton).

Perry, Jason..... I am currently living in Sterling, Virginia, USA. I work for a tree company as an arborist. The company is called The Care Of Trees Inc out of Herndon VA. My two friends/roommates also work for them and are alumni of AC. Their names are Matthew Linton (from St. Stephen, NB) and Jill Spence (Truro, NS).

Young, Angela.....Just a note to let some of you know what the Newfi is up to. Although a graduate of the Animal Science Degree program, I've just accepted a position with AT&T Canada here in Calgary. I moved here in January with my boyfriend, Sean. Didn't have a whole lot of luck in the Animal Science field...moving on to a whole new career and liking it. Feel free to drop me a line. Angela.Young@attcanada.com

Webb, Ben.....I am about to take over as manager of a large dairy herd in the interior of BC. <farm_boy28@hotmail.com>

Ching, Melanie..... is entering her second year of Vet school and has recently become engaged to Dan Hicks, Class of 1998. Congratulations Melanie!

Harrold, Morgan.....legally married Tasha Lin Cassandra Forrester. They will have a wedding ceremony in May of 2001. Morgan is a Turkey Farm manager at The Turkey Store.

Newell, Mike.....graduated '99 in environmental Biology. Out here in Vancouver going to school to become a public health inspector. Howdy to all those who remember me. Just got a visit from Angela Young (working in Calgary). She says "Hi". We're both doing well in our respective pursuits. The last time we were able to see each other was grad (over a year ago). We're getting together to do up one final golden ram editorial. Hope it's still going strong.

Aucoin, Melissa..... I worked a year with the AST program at NSAC and I am now at the vet college in PEI. Write and e-mail to say hello!! <maucoin@upei.ca>

Lucas, Melanie.....Bachelor of Technology (Landscape Horticulture) and '97 Landscape Horticulture Technology has accepted a position with White Point Beach Resort as a Horticulturist.

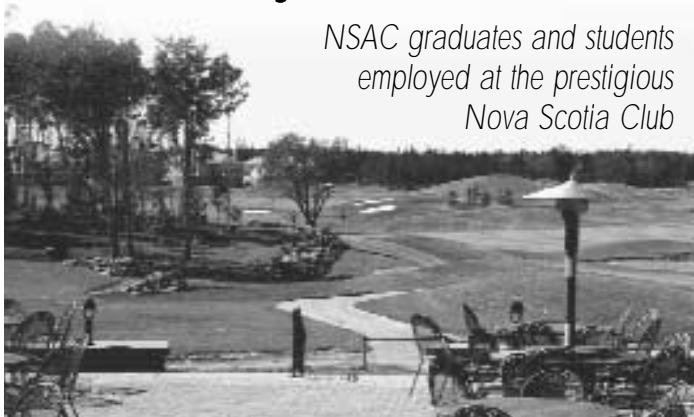
Boyd, Sean.....B.Sc.(Agr.) Aquaculture, has accepted a position with the University of Maryland. Sean is currently employed with Atlantic Marine Seed, an oyster hatchery in Greenwich, PEI.

Briggs, Bradley..... graduated in 1999 with a degree in Plant Science and joined Cavendish Farms in March of 2000. He is currently working as a

Continued on page 24

A Day at Fox Harbour

NSAC graduates and students employed at the prestigious Nova Scotia Club



NSAC graduate Al MacMillan, (Class of 1997) who supervises the Landscape Crew at Fox Harbour Golf Course in Pugwash provided a tour to a group of seven NSAC employees, Tuesday, August 22, 2000 including Roger Crowe and Stephanie Brown Rogers of the Public Relations office, Roseanne Chapman and Rebecca Veenhuis, Career Services Office, Aaron Barclay, Natasha Atkinson of the NSAC Recruitment Office and Dean of Student Services Judy Smith. A group picture was taken of the 13 NSAC students employed with the operation in a variety of positions including landscape and turf management.

Al, who is employed full-time, ten months of the year, began at Fox Harbour in April 2000 and supervises a 16 member landscape crew responsible for the 1000-1500 acre Championship course. The facility employs about 150 people and is open by

invitation only. Restricted memberships are available with green fees at \$180.00

NSAC faculty member John Higgins was responsible for the design work on the 27 hole course with students participating in stonework, pond implementation, landscape and turf maintenance. With nearly eight kilometers of cart path, a full sized marina, 12 condos and five tee boxes per hole, NSAC graduates and students may never see a golf club.



The students were photographed at the end of the mile long airstrip underneath the Fox logo. Back Row (L to R): Tanya Langille Class of 1998 Land Hort, Landscape Crew, Al MacMillan Class of 1997, Land Hort, Supervisor Landscape, Crew Julie Derrick, Class of 2000, Land Hort, Landscape Crew, Joyce McKay, Class of 2001,

Animal Science, Turf Crew, Steven Kouwenberg, first year Ag Mech, Landscape Crew. Front Row (L to R): Sarah Chapman, first year Land Hort, Landscape Crew, Sarah Lynn Thornhill, first year, Environmental Sciences, Turf Crew, Mike Gautreau, third year, Land Hort, B.Tech, Landscape Maintenance, Kim Shand, Class of 1993, Land Hort, Landscape Crew

Missing from photo:

Keith MacIassac, Class of 2000, Landscape Crew, Deanne Caines, First year AHT, Turf Crew, Janelle McKay, first year AHT, Turf Crew, Duggan Kennedy, Class of 2000, Land Hort, Landscape Crew

Banter continued from page 23

Management Trainee overseeing the Chemical Warehouse in Kentville NS.

Gallant, Steve..... Steve graduated in 1999 with a Major in Agriculture Mechanical and a Minor in Agricultural Business and upon graduating joined Cavendish Farms on PEI. He began his career as a production Supervisor working in the processing plant but has since joined Cavendish Agri Services working as a Management Trainee responsible for Prevision Farming Services.

MacNeill, Lauranne..... Lauranne has jumped ship. From one ship to another that is, from the Bluenose II to Theodore Too, a 65-foot boat based on the live-action animated TV series, Theodore Tugboat. Theodore Too, the friendly tugboat with the five-foot smile has been touring the East Coast of the US since August making stops in New York, NY, Philadelphia, PA, Baltimore, MD, Savannah, GA and finally Tampa, FL for the Superbowl. Lauranne is the Liaison

Officer doing on-site public relations. "I'm learning and seeing lots, that's for sure," says Lauranne, a '99 grad of the aquaculture program. "My experience working in the public relations and alumni office while I was a student at NSAC has certainly been an asset on Theodore Too." Theodore Too, operated by the Halifax-based Cochran Entertainment Inc. should hit home waters early this summer. If anyone would like to get in touch with Lauranne or has any questions about Theodore Too she can be reached at lauranne@cochran.com

Class of 2000

Dillman, Trevor.... Congratulations are extended to Trevor Dillman who recently enrolled in the Masters program at NSAC and received the Allan A. Saunders Memorial Graduate Scholarship, \$3000 and Michael Whidden Memorial Bursary, \$2000.

Smith, Erin..... Congratulations are extended to Erin Smith who recently enrolled in the Masters program at NSAC and received the Robert P.

Longley Scholarship valued at \$7000 (Supervisors: Drs. Gordon and Madani)

Williams, Meaghan..... Hello Aggies!! Just to let you know that I'm currently working for a hog farm in Woodstock and I'm the only English and female worker!! Miss the old AC campus and all my fellow crayon crew members!!! If any of you want to drop me a line the address is muggs98@hotmail.com! Keep the aggie spirit up!! **AGGIES ONCE, AGGIES TWICE.....**

Dukeshire, Amy (Lemmon)..... I'm going to miss not going back in the fall. I'm married and working at the Agriculture & Agri-Food Canada Research Centre in Kentville.

Terborg, John..... is currently in Edmonton. I'm missing the aggie spirit and the maritime salt air. I've been working in aviation for the last year here. Hello to the grad classes of '95 and '96. Wishing everyone lots of luck.

Archibald, Nathan..... Ag Ec. Degree '00, is now a Territory Manager in Western Ontario for

Shur Gain/Maple Leaf Foods, Inc. He works for their poultry division, visits poultry farms, advises on feed plans and sells feed and "couldn't be happier with his job."

Morris, Greg..... Env. Bio '00 is working for Phillips Environmental Services Ltd. in Halifax. He is working in their inorganic lab and is finding it incredible experience being surrounded by lots of other AC Grads.

King, Amy....., Animal Science degree '00 just accepted a short term Research Assistant position at the Central Experimental Farm in Ottawa. 📧

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Knowledge for an equitable world

Canada has developed a strong commitment to meet the Kyoto Protocol on the reduction of greenhouse gases with the federal government's plans to invest considerable resources in climate change management over the next few years. To do so, Agriculture and Agri-Food Canada recently developed a Climate Change Funding Initiative for Agriculture (CCFIA) that has earmarked funds directly for human resource development in climate change. As part of this, they have allocated funding to each agricultural faculty across the country to directly support graduate level training, post doctoral fellow opportunities, or for the creation of climate change research chairs, as at NSAC.

"One thing I think is quite apparent at the national level is that for us to effectively meet some of these targets, we must have more people with expertise in climate change mitigation and adaptation," says Dr. Gordon.

Nonetheless, in conjunction with the seed money provided by Agriculture and Agri-food Canada, working as a team, Dr. Gordon and other NSAC researchers Drs. Al Fredeen, Ralph Martin, Ali Madani and Gary Patterson matched the initial funding with other private and public sector sources to create NSAC's new research chair position devoted strictly to climate change and management.

"We see this as being a novel approach to coming up with some industry accepted practices for climate change and management. Right now, our immediate objective is to establish this three-year faculty position with an eventual goal of it evolving into a permanent faculty position dealing strictly with long-term climate change issues," says Dr. Gordon.

Climate Change Issues

NSAC expects the individual chosen for the new research chair position will focus on manure management systems and nutrient management considering they have been identified as two major priorities. But the College is also establishing a steering committee of commodity leaders and other researchers to identify specific priority issues for Atlantic Canada.

"Certainly, issues like manure spreading, manure storage, handling systems will be targeted. Those will all be established through a coordinated approach through industry," says Dr. Gordon. "We really think this will be a unique opportunity to provide some regional expertise in climate change and will develop into an internationally recognized program which focuses on meeting the national targets established" for reducing greenhouse gas emissions.

However, in order to allow researchers to accurately measure greenhouse gas emissions, which include methane, nitrous oxide and carbon dioxide from these various manure management and nutrient management systems, NSAC has recently been successful in obtaining monitoring equipment through the Canadian Foundation for Innovation.

"We feel this goes hand-in-hand with this new chair to have the infrastructure capabilities for someone to come on board and really develop a world class research program," says Dr. Gordon.

In terms of developing more climate change friendly manure and nutrient management systems, "our goal is for them to be more adaptive, more applied. I personally think the industry is very keen on supporting climate change issues. But at the same time, they have to be economically favorable," says Dr. Gordon.

"It's the same old thing. For something to be widely accepted it has to have a broad level economic viability. So our goal to work on will be to find out how we can better manage our current conventional systems, small changes that we can do to reduce emissions of greenhouse gases," he says.

The NSAC team of researchers already involved in climate change issues as part of their research programs generally focus on applied, adaptive on-farm research, says Dr. Gordon. For instance, NSAC's research work on constructed wetland treatment systems has demonstrated that these agricultural wastewater treatment systems work quite well under Atlantic Canada's climatic conditions. However, a question remains concerning the role these systems play in terms of air quality.

"Certainly, the carbon dioxide interactions have been well studied, but not simultaneously with the other major greenhouse gases such as nitrous oxide and methane. Also what about other gases such as ammonia: Are these major sources of ammonia emissions into the atmosphere?" Dr. Gordon is already questioning.

Overall, NSAC researchers working in conjunction with the new Research Chair in Climate Change will be "looking for solutions that are not cost prohibitive and the way do that is to always think about what is practical and realistic." says Dr. Gordon.

Nonetheless, "things are really just getting started. It is a unique position that addresses a federal commitment to greenhouse emissions reduction in the next few years. This will be somebody who will directly work for agriculture to address these issues," says Dr. Gordon.



Annual General Meeting

The NSACAA held its **Annual General Meeting** on Saturday, October 21, 2000.

For a complete set of Minutes please contact: (902) 893-7247

Calendar of Events

Convocation	May 4th, 2001
The 5th Annual Agri-Golf Classic	Friday July 27, 2001
NSAC Oktoberfest 5 K Run	October 20, 2000
Reunion Weekend 2001	October 20, 2001
Varsity Alumni Weekend	October 20, 2001
Festive Craft Market	November 17-18, 2001

Start planning today for Reunion 2001!

NSAC Campus October 20, 2001 Honour Year Classes ending in 6 and 1



Athletics in Review: 2000 –2001

The Langille Athletic Centre is humming with activity! The volleyball teams (men and women) participated in the Limilou Invitational in Quebec city with 24 other teams, the women's basketball team hosted the second annual Atlantic Coast Classic and the men's team traveled to Halifax to play in the third annual Atlantic Coast Classic for men.



Alumni took on 'the young ones' in soccer, volleyball and basketball in the annual October Homecoming alumni matches. Shown above are the basketball alumni including Jeff Kay (middle back) who acts as team Manager for the present men's program.

Women's Soccer

Rookie Head Coach and ACAA Coach of the Year, Kate Adams, led the women's team through a very good season. Finishing league play 3-1-6 , for fourth spot, the Rams met MSVU in the semi-final of the ACAA Championships. Up against a tough Mystics squad, the Rams lost 2-0 to end the year. The women had a strong group of returnees, bolstered by talented rookies. The Bremner sisters (Alyson and Kathryn) , Sara Craig, sweeper Alexis MacDonald and goalkeeper Karen Speer led the team to the play-offs with able assistance from stand-out rookies Gilliam Whidden and Terri Gates. Although disappointed in losing the semi- the Rams had an excellent year with good results.

Results:

ACAA League (4th)	3-1-6
Exhibition	1-2
All Conference	Gillian Whidden
Coach of the Year:	Kate Adams

Men's Rugby

The men's team had a very successful season. Finishing league play in second they defeated the third place team (Acadia) in the semi for the right to meet St. F. X in the final. Highly favoured X-Men had all they could handle with the Rams . The X-Men won by a slim 4 point margin.

Women's Rugby

The women's team played a five game schedule against universities in the provincial rugby union. With tough competition, the Rams had a great year finishing in second spot. The Rams then defeated University of Kings College 12-7 for the second consecutive college title in two years.

Women's Volleyball

The women with Rookie Head Coach Loretta Totten, have a great start to the 2000-2001 season. At the completion of the first semester schedule, the Rams were in third with a 3-4 record. With STU and USA ahead in the standings the ladies have had five game matches with both colleges and are in contention for a spot in the final. Veterans Jenna Tingley, Jenn Hynes, Teri Kennedy and Rebecca Nason are leading the charge Within the Limilou Tournament, the girls had a 0-3 record but won several games within the last matches - a great start to the second half of the season.

Men's Soccer



The NSAC Rams Soccer team were fortunate to have a number of international students participating this year. Martin Humbal (from the Czech republic) is shown battling a UNBSJ opponent.

In a classic rebuilding year, the men's squad started slow but showed vast improvement over eight league games. Faced with the task of replacing 12 from the 99-00 team, Coach Caldwell (with the assistance of Assistant Gary Gorringer) successfully molded new faces around the core returnees - Chris Gourley, Ryan Schofield, Iain Caldwell, Randy Holms and Sandy MacGillvary. Adding an International flavour to the effort were two

students on exchange from the Czech Republic - Zsolt Nagy and Martin Humhal and James Wani from the Sudan. Rookies Mike Blois, Shane Sutherland and Mike Pittman showed promise early in the year and will be called on next year to lead the effort.

Results:

ACAA League (5th)	0-8
Exhibition	2-2
All-Conference:	Ryan Schofield

Men's Volleyball

They just keep doing it! The men are leading the ACAA at Christmas Break with a flawless 5-0 record. UNBSJ and USA are seen to be the biggest challenge to regaining the ACAA title, with NSAC already defeating USA in league play. With Billy MacKenzie (All-Canadian 2000), Team Captain Erland Hart (All-Conference 2000), Chris Ross and Dave Fisher returning as starters and rookie stand-outs Marcus Schroeder, Barrett Gaunce and Dan Ross, the Rams are in good shape. The test at Limilou against strong Quebec teams proved beneficial with the Rams 0-3 but many of the games lost by less than five points. Look for them in the Finals!

Women's Basketball

The ladies are 3-0 at the Christmas Break. Veterans Connie Spacek, Sarah Connell, Carla Shaw and Alyson and Kathryn Bremner are leading the way determined to bring the rookies to a level of excellence in time for the play-offs. Rookies Jenna Tait and Catherine Steiner are getting lots of floor time and are proving their worth in the ACAA game after game. A tough schedule ahead will prepare the girls for the Championships - this year at home in the Langille Athletic Centre. Although 0-3 in the Atlantic Coast Classic, look for the Blue and Gold in the Final of the ACAA's.

Men's Basketball

Missing three key players from last year's squad the Rams have been working hard to gain respect for the 2000-2001 season. That they have done!! Dan Dunford and Greg Van Oostrum have picked up the pace inside, while Donnie and Brad MacGregor have stepped up their game as well. As rookies Mark Harnish and Craig Curley have contributed early in the sea-



The activities of Homecoming weekend include an annual Oktoberfest 5 k run. Shown at the starting gate are some of the 180 runners that took part. Top finishers for NSAC students were Ryan McCarron and Genevieve LaPointe.

son and are expected to be major factors down the stretch. Zero -3 at the Atlantic Coast Classic at Kings, the Rams were leading every game into the locker room at Half. They are 5th and 3-3 at the Break. They are gearing for a play-off spot (very realistic) and a chance to win it all at Home in March. Keep your set tuned !! This could be their year.

Badminton

With a void in the coaching ranks and few numbers (no returnees) in the student ranks, we opted for a year's leave of absence in the ACAA. We expect to be on the courts again in 2001-2002.

ACAA Soccer Championships

NSAC hosted the Championships in October 2000. The winners were UNBSJ on the women's side and STU on the men's.

ACAA Basketball Championships

NSAC is hosting the ACAA Championship - March 3-4, 2001

CCAA Nationals,

2001 Championship Sites

Men's Basketball

Humber College - Toronto, Ontario

Women's Basketball

Mount Royal College - Calgary, Alberta

Men's Volleyball

Okanagan College - Kelowna ,BC

Women's Volleyball

Grande Prairie Regional College - Grande Prairie ,Alberta



NSAC will host the CCAA Men's Basketball Nationals in March 2002.

In Memorium

Earle Harding King, '36
August 23, 2000

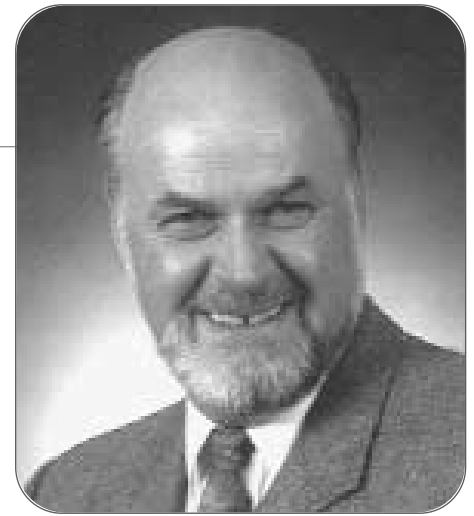
C. Edwin Robinson, '37
July 29, 2000

Malcolm Clarence MacNevin, '47
October 23, 2000

William Adair Stewart, '47
August 28, 2000

Michael Archibald Whidden , '01
August 13, 2000

Look Who's Talking!



Dr. Les E. Haley

Dr. Les Haley is currently Special Advisor Climate Change with Agriculture and Agri-Food Canada, Ottawa. He holds a Diploma in Agriculture from NSAC, a B.S.A. Animal Science and an M.S.A. Genetics and Breeding from the Ontario Agricultural College and a Ph.D.

It has been 43 years since you graduated from the NSAC in 1958. What are your favorite memories from your College days?

The single strongest memory from college days at NSAC is the people, including faculty, staff and my classmates. The faculty were helpful in so many ways. In addition to their teaching they each had a special role in the life of students, such as athletics and social functions. They understood our financial situations and helped with part time and summer jobs. At the same time they were very demanding academically and the preparation of NSAC degree students was well recognized by McGill and OAC.

Most of the students were from rural Atlantic Canada with limited resources. They were the most balanced group of people I have had the pleasure of working, studying and living with. Participation in extracurricular activities including athletics, College Royal and social functions was very high. They were without question a highly motivated and very strong group academically who became well developed professionals. Over 1/3 of my 58 class earned doctorates (PhD, DVM) and the Advanced Farm class members are still recognized in Nova Scotia for their entrepreneurship. In short they were highly motivated, hard working, fun loving, poor farm boys.

What do you see as the most significant and positive changes in the NSAC since you were a student?

The most significant changes at NSAC has been its ability to adapt to changing agricultural needs through the addition of the degree program in the 80's and graduate programs in the 90's. It is no accident that farmers of Atlantic Canada have the highest levels of education in Canada. The degree program was timely in recognizing the advancements made in agriculture.

Today agriculture needs the specialized research designed to answer specific questions associated with the widely divergent

Genetics from the University of California. He was Principal of the Nova Scotia Agricultural College from 1989-96 and Deputy Minister of the Nova Scotia Department of Agriculture and Marketing, 1996-98.

and unique agricultural systems in Atlantic Canada. The graduate programs address this need and the recently developed research chairs in blueberries, carrots, turf, etc. are the kind of partnership between industry and NSAC that will serve the future of agriculture.

This issue of the Agricola News profiles the new Aquaculture Centre on campus. You have been involved from the beginning with this project, how do you see this Centre benefitting the College and the industry?

Aquaculture is one of our greatest opportunities for culturing new species of high quality foods. It belongs in agriculture because the skills, knowledge and approaches, requiring breeding, feeding and nutrition, farm management, financial management, is the same as the farming of any agriculture species.

However many of the species that offer the best opportunities are still wild and have not been domesticated like agricultural species for thousands of years. The conflicts of growing aquaculture species in "common waters" or shared facilities is a new problem for agriculture.

The new facility at NSAC will, in addition to training agrologists for this growing industry, provide the research infrastructure to domesticate new species. The fully enclosed recirculating water supply is the direction for fish farming that will allow avoidance of the "common waters" problem while providing environment control of any effluent.

A small working team of NSAC researchers have secured funding from the Climate Change Funding Initiative for Agriculture (CCFIA) to support climate change research at the College. Do you see this as an area of growth in the future?

The UN scientific body on Climate Change has increased its projection of global temperature increases due to increased levels of greenhouse gas emissions. This is clear-

ly going to require more investment in all aspects of climate change including research.

Agriculture is unique in that its emissions are nitrous oxide (from nitrogen applications to soils) and methane (from ruminant livestock and manures) that are the result of poorly understood biological processes that require more research. One of the projects funded at NSAC will look at the greenhouse gas emissions from foraging dairy cattle.

Agriculture is based on photosynthesis, which removes carbon dioxide from the atmosphere. If the carbon dioxide removed can be tied up for long periods in sinks, such as in agricultural soils it would help reduce greenhouse gases in the atmosphere. Agricultural research in Canada has been key in demonstrating soil sinks capacity and allowed Canada, the United States, Australia and others to develop a very firm position at the recent UN meeting in the Hague that we should receive greenhouse gas credits for sinks from agriculture and forestry. Disagreement with some European nations on this point lead to a failure to reach agreement at the conference.

One of the research projects at NSAC is studying wetlands, both natural and constructed, to determine if these systems are sources or sinks for greenhouse gases. NSAC is taking a leading role in some key research areas in climate change and the need for this and other research and development will become even more important as we globally address greenhouse gas reductions. 🌱

Look Who's Talking is a regular feature of *Agricola News*. An alumnus, each issue discusses his or her thoughts on various topics relevant to the NSAC.

Homecoming 2001

October 19 - 20



**The Nova Scotia Agricultural College Alumni Association
welcomes all alumni back to campus on October 19, 20, 2001.**

(A special welcome is extended to honor year classes ending in 1 and 6.)

Schedule of Events

- Alumni athletic competitions • ACAA Varsity Soccer games • College Royal activities
- NSAC Oktoberfest 5 K Run (Saturday, Oct. 21 10:00 am)
 - Presentation of Distinguished Alumnus award
 - Class reunions

**Let us help plan your class
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