

How to be a professional ecologist....

Part 2

March 31st 2015
BIOL 470

I'm graduating. What now?

- Getting a job outside of academia
- Advocacy
- Being a professional (ecologist or otherwise) – building your professional reputation



Consulting

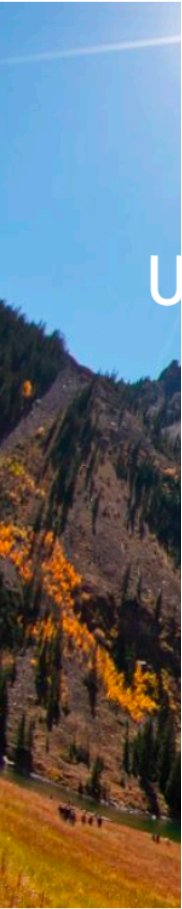


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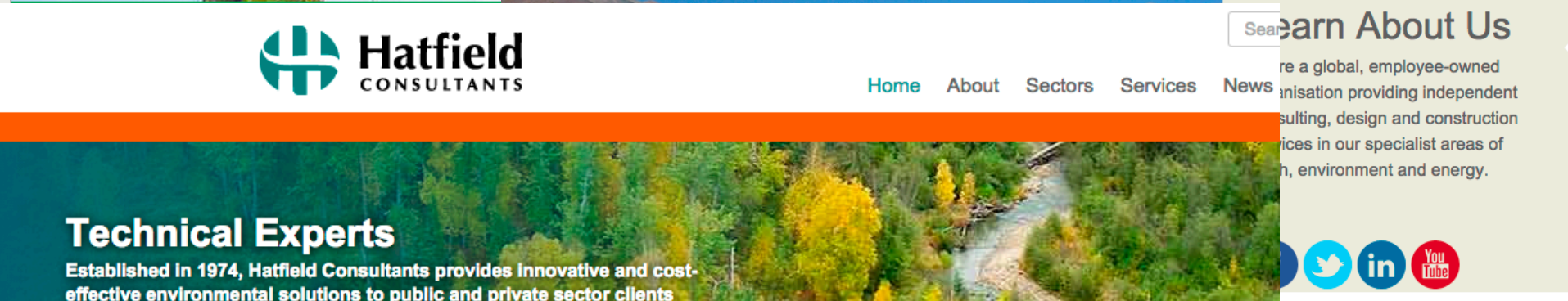
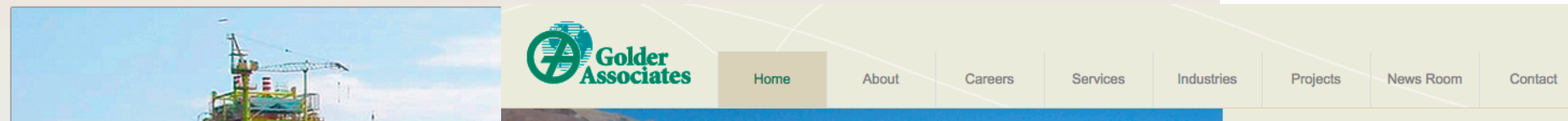
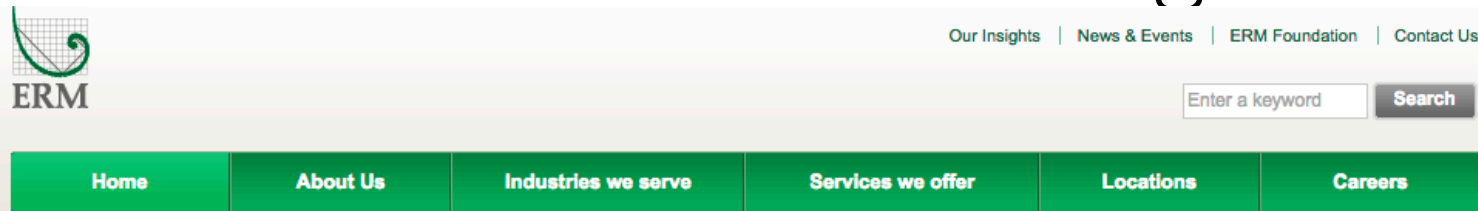
We design with community in mind.

A vertical photograph of a mountain landscape with green and yellow trees under a blue sky. A large white letter 'U' is overlaid on the left side of the image.

The Stantec community unites more than 15,000 employees working in over 250 locations. We collaborate across disciplines and industries to bring buildings, energy and resource, and infrastructure projects to life. Our work—professional consulting in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics—begins at the intersection of community, creativity, and client relationships.

Since 1954, our local strength, knowledge, and relationships, coupled with our world-class expertise, have allowed us to go anywhere to meet our clients' needs in more creative and personalized ways. With a long-term commitment to the people and places we serve, Stantec has the unique ability to connect to projects on a personal level and advance the quality of life in communities across the globe. Stantec trades on the TSX and the NYSE under the symbol STN.

Consulting



Technical Experts

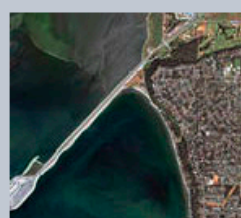
Established in 1974, Hatfield Consultants provides innovative and cost-effective environmental solutions to public and private sector clients throughout the world, including North and South America, Asia, Europe and Africa. We combine specialized expertise with customized multidisciplinary services to support sustainable and socially responsible infrastructure, resource and power projects.



Environmental Monitoring



Environmental Assessment



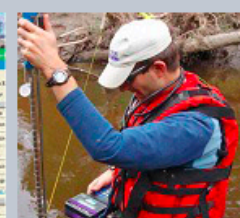
GIS and Remote Sensing



International Development



Environmental Information Systems



Water Resources

Jobs outside of academia

- Consulting
- Provincial Government (provincial, federal
- Federal Government (e.g. Parks Canada, DFO)
- eNGOs...
- Museums

How to find and get the job

- List serves: CSEE, ESA, ASLO
- Personal connections – get a foot in the door
- Prepare your CV and cover letter
- Enable your references to write you great letters
- Do your homework
- Etiquette: listen, ask questions, follow up

RPBio

- What the heck is this and do I need it?



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Professional Accountability

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Application Forms - Membership

Membership in a Self-Regulating
Profession

Member Benefits

Membership Categories



Registered Professional Biologist

Registered Biology Technologist

Membership Categories

Registered Professional Biologist Application

Important: A person who applies for membership in the College as an R.P.Bio., but who is deemed not to meet those criteria, is not automatically reassessed for Biologist in Training (B.I.T.) status. A new application and a second application fee will have to be submitted. Applicants need to use good judgment when deciding on the application category.

To advocate or not to advocate?

Government of Canada Must Act to Protect Atlantic

The western population of Atlantic bluefin tuna has declined by 64% since 1970. Bluefin tuna are considered an iconic ocean species, not just in Canada, but globally. As part of addressing this decline, the government of Canada has conducted public consultations on the consequences of listing bluefin tuna as endangered under the Species at Risk Act (SARA) and a recommendation on listing is expected in early 2015.

In 2011, the esteemed group of scientists that make up the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) concluded that the giant Atlantic bluefin tuna that visit Canadian waters be considered endangered. The primary threat to the tuna population, and indeed the primary reason for its decline in the first place, is overfishing. Species that are designated under the Species at Risk Act must, by law, have a recovery plan and associated action plan, which entails no directed harm to the species.

Unfortunately in 2012, Canada requested an increase in fishing quota for this very same species at the International Commission for the Conservation of Atlantic Tunas (ICCAT). This not only serves to undermine the SARA process, but is also confusing to fishermen and the Canadian public. The solution cannot be more overfishing; it has to be limiting the catch to a level based on precautionary scientific principles, which Canada first introduced into the ICCAT process.

The Atlantic Canadian bluefin tuna fishery is, in many ways, one of Canada's most well regulated. The majority of the quota is caught using low impact fishing gear, one hook and one line, or a "rod and reel," and the annual fishery is critical to many coastal communities in Atlantic Canada. According to the Fisheries Act, fisheries resources are managed by the Canadian government for the public good. What good is

served in risking potential future species?

Canada has yet to publicize its position on the upcoming meeting. The management recommendations remain the same, for a total catch. No new scientific advice will be available until the next stock assessment in 2015. As states maintaining catch at current levels are expected to allow the spawning biomass to allow scientists to develop a clear population growth and recovery trajectory suggest that recovery of Western may be beginning, and as such, in at such a critical time may undermine management and conservation efforts.

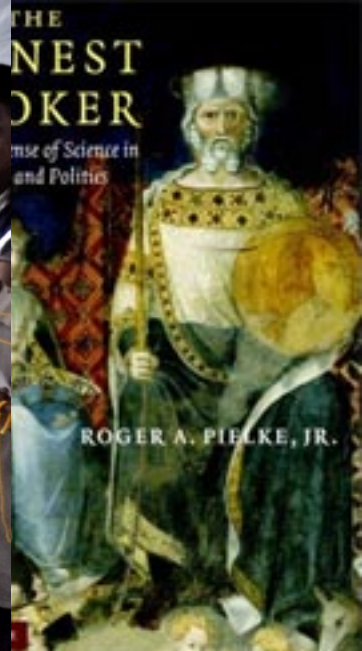
At the upcoming ICCAT meeting in government of Canada to ensure the tuna population is maintained at 1750 metric tonnes, with any scientific recommendation. A endangered by Canadian scientists amount of protection.

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Sponsored by the Ecology Action Centre



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The Science We Can Trust on Climate Change

Posted: 10/03/2013 6:35 pm

The summary of the fifth **Intergovernmental Panel on Climate Change (IPCC)** report has been released, and it confirms that climate change is real, dangerous, and caused by us. More than **97% of science papers** that take a position on climate change support this conclusion.

This unprecedented level of scientific certainty has not stopped legions of pundits from rejecting evidence, questioning scientists' motives and qualifications, and proposing ever-



Building your professional reputation

EDITORIAL

Ten Simple Rules for Building and Maintaining a Scientific Reputation

Philip E. Bourne , [Virginia Barbour](#)

Published: June 30, 2011 • DOI: [10.1371/journal.pcbi.1002108](https://doi.org/10.1371/journal.pcbi.1002108) • Published in *PLOS Computational Biology*

Mentorship



LEAN IN

WOMEN, WORK, AND
THE WILL TO LEAD

SHERYL SANDBERG

- encourage you, make key introductions, and teach by example;
- ‘Excel and you will get a mentor’: mentors select protégés based on performance and potential. Be excellent, be prepared;
- Mentors continue to invest when mentees use their time well and are truly open to feedback
- Follow up

Be the best scientist you can be

Know your stuff

Be the best scientist you can be

Know your stuff

Be persistent

even the best scientists are routinely rejected

Be the best scientist you can be

Know your stuff

Be persistent

even the best scientists are routinely rejected

Guard your integrity