



novus

ENVIRONMENTAL

Harmonizing the built and natural environments.





Company profile

Novus Environmental Inc. specializes in the fields of atmospheric sciences, acoustics, and human health with a goal of harmonizing the built and natural environments. At Novus, we take pride in our ability to understand our client's needs, before providing sensible solutions that will work for them. Although our lead experts have numerous years of experience, we continually challenge ourselves to listen, innovate and offer a new spirit in consulting.

Novus' underlying principles begin with our name, meaning new spirit, fresh, and extraordinary, and continue with our logo. Derived from Asian culture, it represents two environments working together to achieve balance, harmony, and sustainability — a fundamental philosophy of Novus.

No'vus Latin origin, meaning new spirit, fresh, and extraordinary. **At Novus Environmental**, it also means people who listen... to understand your needs, before providing sensible solutions that work for you.

What we do...

ATMOSPHERIC SCIENCES

Climate Change
Air Quality
Weather

HUMAN HEALTH

Toxicology
Health Risk

ACOUSTICS

Vibration
Building Acoustics
Environmental Noise



What we believe...

"We can believe that we know where the world should go. But unless we're in touch with our customers, our model of the world can diverge from reality. There's no substitute for innovation, of course, but innovation is no substitute for being in touch, either."

Steve Ballmer, *CEO Microsoft*

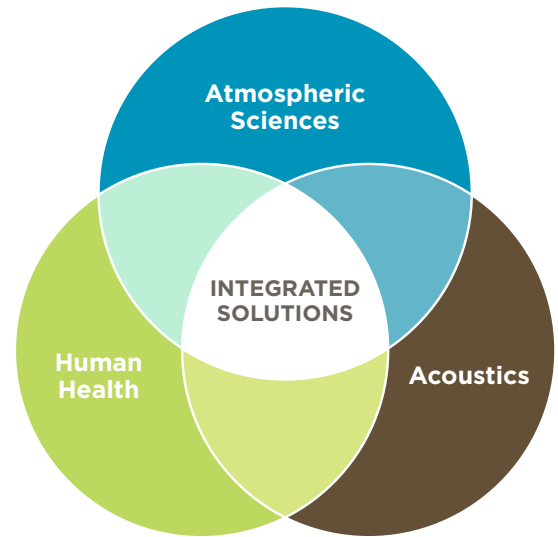
"Quality in a service or product is not what you put into it. It is what the client or customer gets out of it"

Peter Drucker, *Renowned Author*



Integrated expertise

Successful integration of a wide range of expertise is more critical for today's projects than ever before. Whether you're looking for early consultation and advice, advanced modelling and forecasting, expert testimony, or mitigation development; you need a consultant that provides integrated expertise. Specializing in atmospheric sciences, acoustics and human health, our experts understand the importance of working closely together to develop integrated solutions that work for you.



SCOTT PENTON
Noise & Vibration



DARRON CHIN-QUEE
Acoustics & Vibration



RON HALEY
*Human Health
& Toxicology*



SCOTT SHAYKO
*Infrastructure
& Transportation*

Exceptional people... extraordinary results.

Novus understands that successful projects require experienced consultants who work closely with clients. Our team consists of experts that have worked on hundreds of projects in their areas of expertise and are committed to developing solutions that are best for you.

Novus believes that extraordinary results stem from not only applying tools and models, but understanding the science behind them. For this reason, we continually contribute to model development and advancement, allowing us to provide innovative solutions for some of the most technically challenging situations.

The Novus Core Team



NIGEL TAYLOR
Energy & Industry



JASON SLUSARCZYK
Air Quality



XIN QIU
*Air Quality
& Meteorology*



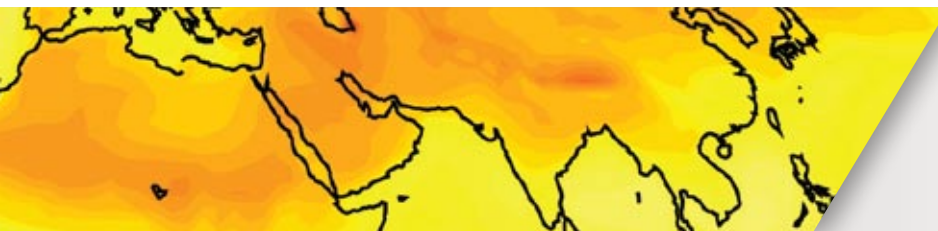
Solving problems at all scales... from the global to the microscopic

Assessments at any scale

Unique to Novus is our ability to assess issues pertaining to atmospheric sciences, acoustics and human health across a diverse range of scales, from the global down to the microscopic environment. Understanding how each scale influences the other, Novus is able to advise on how to harmonize the complex interactions between the built and natural environments.



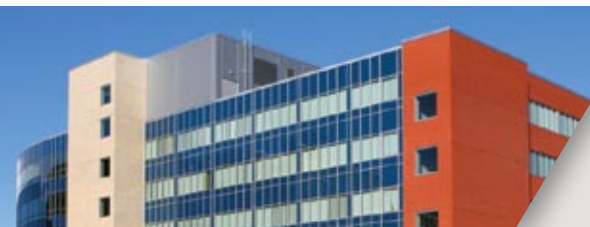
GLOBAL



REGIONAL



LOCAL



BUILDING & INTERIOR



MICROSCOPIC



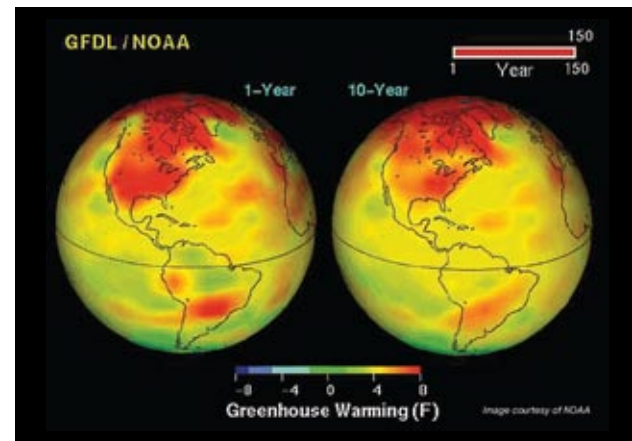
Atmospheric Sciences

Novus addresses issues in atmospheric sciences ranging from the global to the microscopic scale. Fundamental to our work is a goal of understanding and limiting air pollution impacts on the natural environment and human health.

We offer a complete range of modelling capabilities and address a wide spectrum of air quality, climate and meteorological issues. A variety of assessments including climate change downscaling, regional photochemical modelling and building wake dispersion models are used to assist all levels of governments, architects, engineers and industry, on policy, building design and approvals.

Weather analysis and prediction such as hurricanes, winter storms, tornadoes, microbursts and severe thunderstorms are frequently used in building design, agriculture, coastal management, and insurance.

Our work enhances the quality of life and aids policy makers and building designers to make more informed decisions.



AIR QUALITY

- Long Range Transport
- Photochemical Modelling
- Haze and Visibility
- Industrial Dispersion Modelling
- Transportation Dispersion Modelling
- Building Air Intake and Exhaust Design
- Deposition
- Land-Use Compatibility

WEATHER

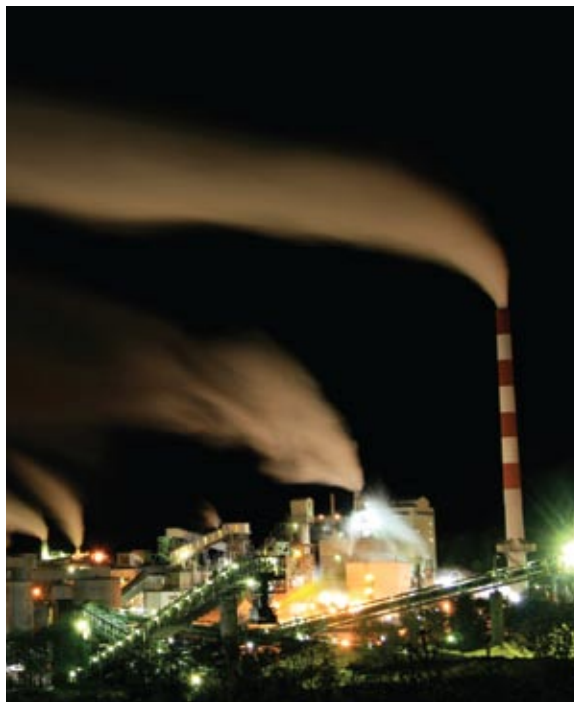
- Mesoscale Meteorology
- Microscale Meteorology
- Weather Hazards

CLIMATE CHANGE

- Greenhouse Gases
- Climate Change Downscaling
- Adaptation and Mitigation

MODELLING CAPABILITIES

CAMx, WRF-CHEM, GEOS-CHEM, CMAQ, CALPUFF, ISC3, AERMOD, CAL3QHCR, CALINE4, MOBILE6.2, EDMS, WRF, MM5, Climate Core, RCM and GEM-LAM





Acoustics

Novus provides guidance on noise, acoustics and vibration over a range of projects from city scale environments to specific building components. Our goal is to create functional, comfortable indoor and outdoor environments, compatible with their surroundings.

Our practice addresses your needs for land-use approval, permitting, environmental assessments, interior space acoustics for music, performance and speech clarity, noise and vibration control, sound isolation between spaces and integration of acoustics into sustainable design.

Our practice area principals are qualified expert witnesses and have worked on projects all over the world for most building types, industry and infrastructure.



ENVIRONMENTAL NOISE

- Noise Mapping
- Land-Use Compatibility
- Industrial Noise
- Transportation Noise

BUILDING ACOUSTICS

- Architectural Acoustics
- Building Systems Noise Control
- Speech Privacy
- Sound Isolation
- Sustainable Design/
Designing for Human Comfort

VIBRATION

- Environmental Vibration
- Building Systems Vibration
- Vibration Sensitive Equipment



Human Health

Central to the Novus approach is our focus on understanding the potential implications of air quality and noise on human health. We evaluate impacts over regional, community, local and individual scales. Our goal is to help clients understand the potential health risks associated with projects and operations.

Our professionals have conducted hundreds of assignments related to human toxicology, health risk assessment, worker exposure and safety, epidemiology and community health. We provide support in a variety of areas including regulatory approvals, permitting, environmental assessments, community health, indoor air quality, worker exposure and safety.

Our principals have worked on projects for private and public sector clients across Canada and the US for a wide range of programs related to transportation, institutional, energy, mining, manufacturing, waste disposal and Brownfields.



TOXICOLOGY

- Criteria Evaluation and Development
- Alternate Standards
- Chemical Hazards
- Nanotechnology and Biologics

HEALTH RISK

- Community Health and Economic Impact
- Health Risk Assessment
- Chemical Exposure





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