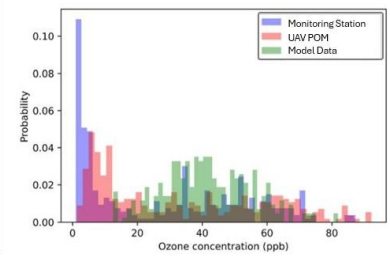


## Detailed Contents of *2B Buzz* Newsletters

### Winter 2025

- Happy New Year from 2B Tech
- Lightweight POM Yields Heavyweight Data
- EPA Updates Ozone UV Cross Section
- Nanoparticle Bursts from the Rainforest



*[Please see next pages for prior years]*

## Fall 2024

- Visitors from GEOTEK Consulting, SGS Put the Spotlight on the AQSync and Solar Trailer
- 2B Tech Model 205 Ozone Monitor on 15 e-Buses in Salt Lake City
- Tropical Forests Feeling the Ozone Blues
- Meet our Product Specialists: Lupita Ortega and Aime Neville



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## Summer 2024

- 2B Tech Workshop for Customers (AQLite and AQSync)
- Meet our Program Manager: David Kopala
- Case Study: Model 205 Ozone Monitor Flies on NOAA Aircraft in Denver Air Quality Study
- Atmosphere News: Pollution Harms the Beneficial Insects



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## Spring 2024

- Senate Hearing Alludes to AQSync's Role in Making Sense of Sensors
- Meet our Manufacturing Assistant: Chenda Savath
- Case Study: Three 2B Tech Instruments Team Up in Shipping Emissions Study
- Atmosphere News: Particle Pollution Suppresses Photosynthesis on a Continental Scale



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## Winter 2024

- We've Launched Our New Website!
- Case Study: Our AQSync Extends Air Monitoring to Communities
- Atmosphere News: Satellite Debris Increasing in our Atmosphere
- Meet Our Production Manager: Logan Miskowiec



## Fall 2023

- 2B Tech Management Changes
- 2B Tech Instruments on the Today Show
- Wildfires Are Stalling Air Quality Progress
- Spotlight on Our Distributors



## Summer 2023

- News from 2B Tech: FEM temperature range extended for ozone, NO2 instruments
- More News: Solar powering of our AQLite, AQSync systems
- Progress in China on PM2.5 Pollution
- The AQEarth Project: Measuring Air Quality in Communities from Alaska to Mexico and Points In Between
- Meet Our Manufacturing Assistant: Major Reis



## Spring 2023

- Change is in the Air! 2B Tech rebranding and location change
- Air Pollution and the Impressionist Artists: The Intersection of Art and Environmental Reality?
- A Tribute to Paul Crutzen (1933-2021)
- Meet Our Manufacturing Assistant: Lupita Ortega



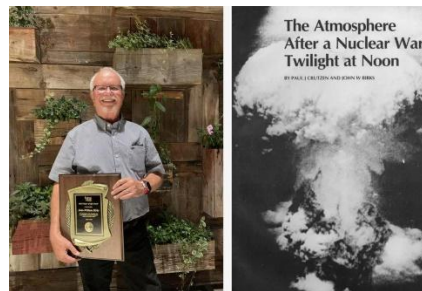
## Winter 2023

- Launch of Our New Social Network: CommunityAQ.com
- Raising a More Climate-Friendly Cow
- The Human Body as an Air Pollution Detector
- Meet Our Manufacturing Assistant: Sheldon Hackler



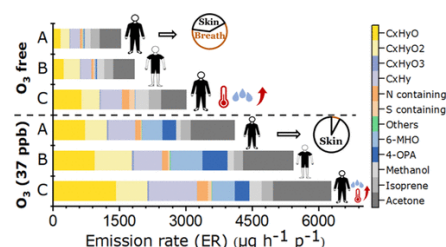
## Fall 2022

- John Birks Awarded 2022 Future of Life Award
- Wildfires Are Getting Taller -- And Why that Matters
- 2B Tech Ozone Monitors Cost Effective in the Long Run for Studies in Remote Forests
- Meet Our Shipping and Manufacturing Assistant: Andrew McCullough



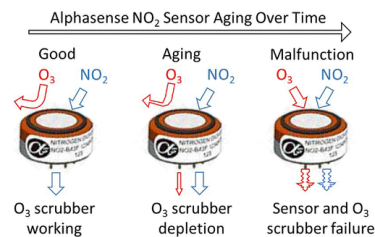
## Summer 2022

- Upcoming Conferences
- Rural Network of Sensors Led by Citizens to Pinpoint Fracking Pollution
- Indoor Air Quality and the Role of People As Emitters (!)
- Meet our Mechanical Engineer: Luke Greenidge



## Spring 2022

- Upcoming Conferences - Visit Us at Our Booth
- The Long Reach of Wildfires--Depletion of the Stratospheric Ozone Layer
- Sensor Longevity Study: The Need for Reference Verification
- Employee Spotlight: Cisco Manzo



## Winter 2022

- 2B Tech and the World of Multi-Pollutant Monitoring
- Declining U.S. Vehicle Emissions Translate into Saved Lives
- Studying Rainforest Emissions in... Arizona?
- Employee Spotlight: Morgan Johnston



## Fall 2021

- Introducing the AQSync: Revolutionize Your Air Quality Monitoring
- Wildfires Sparking More Cases of COVID
- First Published Papers Using Our Model 714 Calibrator
- Employee Spotlight: Austin Bailly



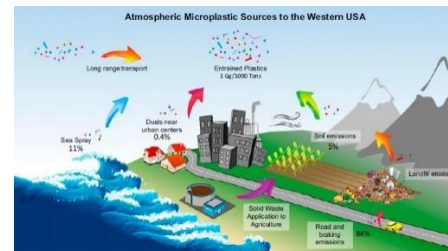
## Summer 2021

- Global Poisoning by Carbon Dioxide?
- AQLite Air Monitoring Packages: Summer Promotional Offer
- 2B Tech's Personal Ozone Monitor (POM) Case Study: Travel Modes and Personal Pollutant Exposure
- Employee Spotlight: Jonathan Beall



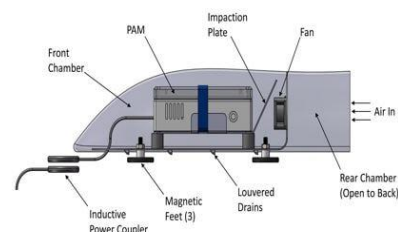
## Spring 2021

- Spring Promotion: Model 108-L Ozone Monitor
- Air Pollution News: Microplastics in the Atmosphere
- Case Study: Two 2B Tech Monitors Deployed by Bicycle (MOBAIR)
- Employee Spotlight: Tommy Kopala



## Winter 2021

- Air Quality Sensors Catch a Ride in 2B Tech's Car Topper (click on picture at right to see a video!)
- The Coronavirus "Air Quality Experiment"- Only Modest Ozone Declines
- 2B Tech Wins a 2020 Tibbetts Award for Its SBIR Research
- A Bare-Bones Ozone Monitor for Disinfection/Sanitization Applications





## Fall 2020

- How Ozone Can Help the Airline Industry During the Pandemic
- A Lesser Known Player in the Wildfires/Air Quality Story (Nitrous Acid)
- 2B Tech's Instrument / Sensor Packages
- Two New Videos from 2B Tech: Model 106 Ozone Monitors, 2B Data Display
- 2B Tech Research Preview: Humidifying Classrooms Would Help Schools Reopen More Safely!



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## Summer 2020

- COVID-19 Impacts as Viewed from Space
- What to Do When Your Long-Term Monitoring Site Might Have to Move
- High School Students Motivate School's Air Quality Improvements
- Another Patent for 2B Tech: Folded Tubular Photometer



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## Spring 2020

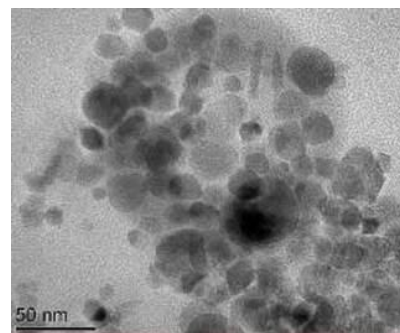
- On One of the Front Lines of the Virus Wars
- An Unintentional Experiment in Air Quality
- John Birks Honored with CARB's Haagen-Smit Clean Air Award
- New 2B Tech Peer Reviewed Publication on Versatile Model 714 NO<sub>2</sub>/NO/O<sub>3</sub> Calibration Source



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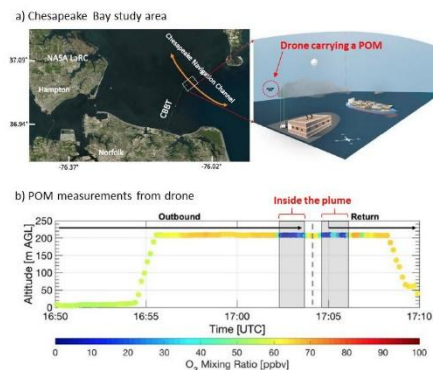
## Winter 2020

- Announcement: 2B Tech's Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor Earns European Certification
- Case Study: Is the Indoors a Refuge from Air Pollution?
- Air Pollution News: Nanoparticles and Human Health
- 2B Tech Receives Phase II NSF Grant to Develop "AQSync"
- More Than 1000 Publications Have Cited Use of 2B Tech Instruments
- Meet Our Product Manager: Brian Carpenter



## Fall 2019

- Case Study: What Happens to Ozone Inside a Ship Plume?
- Air Pollution News: High Sensitivity of Corn Varieties to Ozone
- 2B Tech's New Paper on Our 10-plus Years of Outreach and Education Work
- Meet Our Repair Specialist: Ryan Murphy



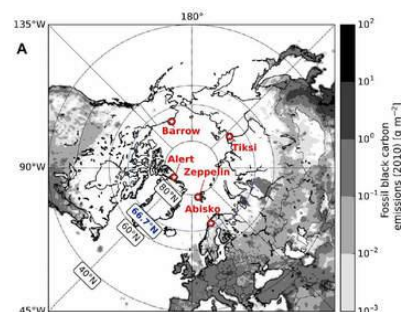
## Summer 2019

- Portable Mercury Monitor for Oil and Gas Industry
- Air Pollution News: Pollution Progress is Lifting the Famed "Tule Fog" in California
- Case Studies: 2B Tech Monitors at Work in CABOTS, FIREX-AQ
- Meet Our Director of Educational Outreach: Jessa Ellenburg
- Trickle Up: Kids' Climate Education Reaches Parents
- See 2B Tech at these Upcoming Conferences in 2019



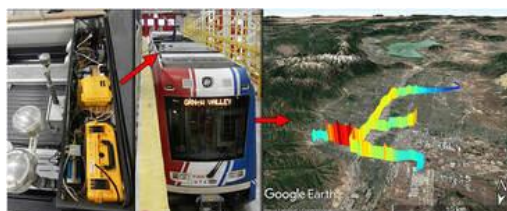
## Spring 2019

- Promotion: Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor
- Air Pollution News: Black Carbon in the Arctic
- Case Studies: 2B Tech Ozone Monitors Used in Food Industry, Personal Exposure Studies
- Meet the Technical Sales Rep of 2B Tech: Hayden Aubermann
- 2B Tech's Portable Nitric Oxide Source Receives Patent
- See 2B Tech at these Conferences in 2019



## Winter 2019

- Promotion: Model 714 NO<sub>2</sub>/NO/O<sub>3</sub> Calibration Source
- Air Pollution News: Reducing Particle Pollution Could Cause Ozone to Go Up
- Case Study: 2B Tech Ozone Monitors Catch the Light Rail in Salt Lake City
- Meet Our Calibration Specialist: Stanley Strunk
- Over 900 Publications Cite Use of 2B Technologies Instruments



## Fall 2018

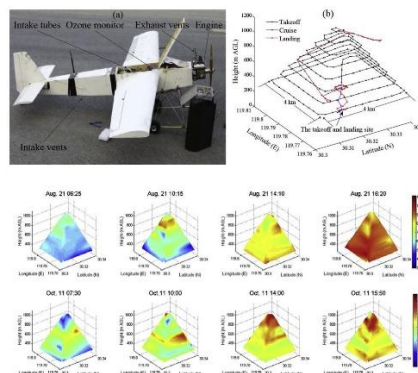
- Promotion: Multi-Channel Model 106 Ozone Monitors
- Air Pollution News: Aclima, Google Street View Partnership for Air Quality Mapping
- Case Study: 2B Tech Monitors Ideal for Tower Study of Air Quality in Beijing
- Meet the Production Manager of 2B Tech: Jackie Falkenstein
- Recently Published by 2B Technologies



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## Summer 2018

- Introducing 2B Tech's "CommunityAQ"
- Air Pollution News: Progress and Challenges in U.S. Air Pollution
- Case Study: A UAV Study of Ozone Above China with 2B Tech's Personal Ozone Monitor (POM)
- Meet the President of 2B Tech: John Birks
- 2B Tech at Upcoming Conferences



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## Spring 2018

- 2B Tech's Newest Product: The Model 211-G for FEM Ozone Monitoring
- Air Pollution News: Household Products Overtaking Vehicles as Air Pollution Source
- Coming Soon: The Model 714 NO/NO<sub>2</sub>/O<sub>3</sub> Calibrator Does it All!
- Case Study: Students at Dine College Using 2B's Personal Ozone Monitor for Balloon Sampling
- Meet 2B Tech Research Scientist: Andrew Turnipseed
- 2B Tech at Upcoming Conferences



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## Winter 2018

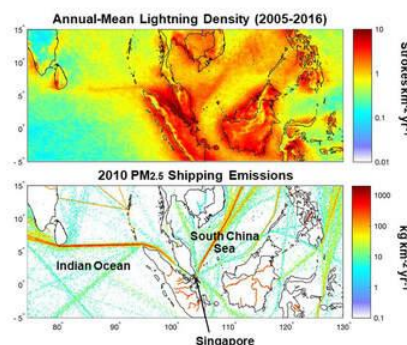
- Extended 2017 Pricing Through 2 February 2018
- A Quick Primer on Ozone Transfer Standards
- Air Pollution News: Particle Pollution, Arctic Clouds, and Climate
- South Korean Distributors Visit 2B Tech
- 2B Tech Awarded NSF SBIR Phase I Grant for Black Carbon Photometer
- Meet 2B Tech's Director of Product Development: Peter Andersen
- 2B Tech at the National Air Quality Conference in Austin, Texas





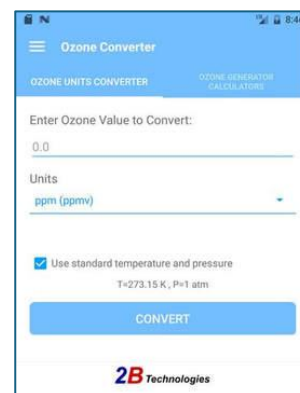
### Fall 2017

- New Multi-Channel Option for the Model 106-L, -M, and -MH Ozone Monitors
- AQTreks is Launched in U.S. Schools!
- Air Pollution News: Of Ships and Thunderstorms
- Case Study: Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitors in Health Canada's Indoor Air Quality Research
- Meet 2B Tech's VP of Finance: Shannon Rodriguez
- 2B Tech at the International Society of Exposure Science (ISES) Annual Meeting
- 2B Tech at the AWMA specialty conference on Air Quality Measurement: Methods and Technology



### Summer 2017

- Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor Gains FEM Status
- 2B Tech Launches Free App for Ozone Calculations & Conversions
- Air Pollution News: Particle Pollution Crimps Efficiency of Solar Cells
- Summer Interns Help Advance 2B Tech's AQTreks Education Project
- 2B Tech Gets Phase I SBIR Grant: HERMES Personal Mercury Monitor
- Case Study: New System for Remote Monitoring of Gas Leaks, AQ
- 2B Tech Reaches Milestone: 5000th Instrument Sold
- 2B Publishes Paper in AMT: Graphite Scrubber Reduces Interferences in Ozone Monitoring



### Spring 2017

- Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor: FEM pending, 10% discount offer through May 31, 2017
- AQTreks Program Launch and Indiegogo Campaign: Donate to make this happen at a school near you
- NASA's Atmospheric Tomography Mission (ATom): 2B Tech on board
- Employee Spotlight: Morgan Allers, Customer Relations Manager at 2B Tech



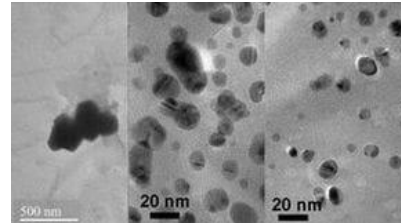
### Winter 2017

- Demo: The DewLine eliminates water vapor interferences in ozone measurements
- Case Study, Indoor Air: Ozone exposure from home appliances
- Air Pollution News: Impacts of oil & gas exploration in the Bakken
- Coming Soon: 2B Tech's Black Carbon Analyzer
- Meet 2B Tech's VP of Operations: Craig Williford



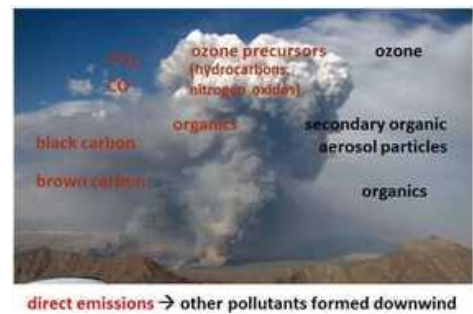
## Fall 2016

- New Patent: 2B Tech's Model UV-106-W Aqueous Ozone Monitor
- Air Pollution News: Air pollution particles invade the human brain
- Case Study: Multiple researchers use three of 2B Tech's Model 205 Dual Beam Ozone Monitors in California ozone study
- The 2016 Best of Both Worlds Conference declared a success by environmental education attendees



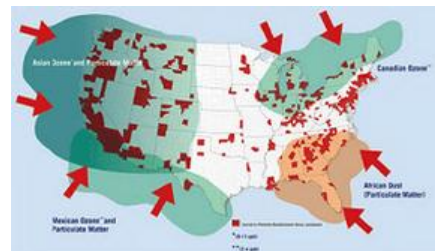
## Summer 2016

- Air Pollution News: Fires, Air Quality, and Climate
- Promotion: Model 306 Ozone Calibration Source
- The 2016 Best of Both Worlds Conference



## Spring 2016

- Air Pollution News: Imported Ozone: Challenges for Meeting the New Federal Ozone Standard
- Promotion: Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor
- Case Study: Roadside NO<sub>x</sub> Monitoring with the Model 405 nm



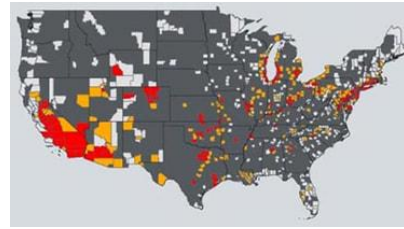
## Winter 2016

- Promotion: Model UV-106-W Aqueous Ozone Monitor
- Air Pollution News: Aliso Canyon Methane Leak
- Featured Product: Model 408 Nitric Oxide Calibration Source
- Monitoring Tip: Vertical Profiling to High Altitudes Using 2B Tech Monitors
- Opinion: Water Vapor Interferences in Ozone and NO<sub>x</sub> Measurements and Inconsistencies in National Ambient Air Quality Standards (NAAQS)



## Fall 2015

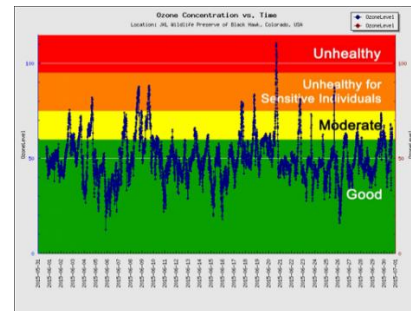
- Personal Ozone Monitor(POM) Approved as Federal Equivalent Method (FEM)
- Featured Application: Measurements of Residual Ozone in a Wastewater Reuse Project Using the New Model UV-106-W Aqueous Ozone Monitor
- Monitoring Tip: Cold Weather Upgrades for Model 202 and 205 Ozone Monitors
- New EPA Ozone Rule
- Featured Journal Article: "Enhanced Light Absorption by Mixed Source Black and Brown Carbon Particles in UK Winter"



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## Summer 2015

- Case Study: Comparison of Ozone in the Mountains and Plains of Colorado
- 2B Tech Receives \$1M NIH/NIEHS Grant
- Introducing 2B Tech's Summer Interns
- Featured Instrument: Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor
- Air Pollution News: Peat Fires and Haze in Southeast Asia
- Monitoring Tip: Pressure and Temperature Corrections to Ozone Measurements



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## Spring 2015

- Case Study: USFS Regional Ozone Monitoring
- Introducing Ahmad Nabiyyar, 2B Tech's New Global Sales Manager
- Featured Instrument: Model UV-106-W
- Air Pollution News: Common Allergens Strengthened by Ground-Level Ozone & Nitrogen Dioxide
- Monitoring Tip: UV-Absorbing Interferences in Ozone Monitors



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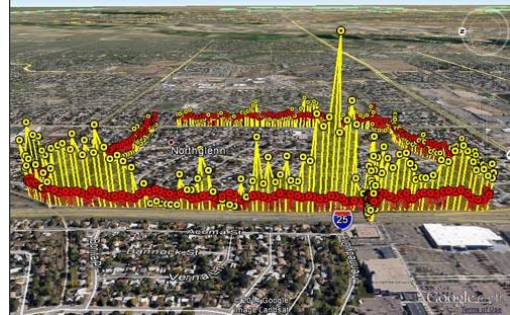
## Winter 2015

- Case Study: EPA Village Green Project
- Featured Product: Model 106-L Designated by EPA as a New Federal Equivalent Method (FEM)
- Air Pollution News: Air Pollution Kills More People than AIDS, Diabetes and Road Injuries Combined
- Monitoring Tip: Wireless Transmission from 2B Tech Instruments



## Fall 2014

- Case Study: GO3 Treks
- Featured Product: Personal Ozone Monitor™ (POM™)
- Monitoring Tip: Noise, Precision and Negative Values
- Air Pollution News: Mapping Urban Pipeline Leaks



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## Summer 2014

- Federal Equivalent Method (FEM) Designation of Model 211 Scrubberless Ozone Monitor™
- New Product: Model UV-106-W Aqueous Ozone Monitor™
- Case Study: Quadcopter Profiling of Ozone and Meteorological Parameters by T&B Systems
- Air Pollution News: Ethanol Fuels Ozone Pollution
- Announcing GO3 Treks



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## Spring 2014

- Case Study: Airborne Observations of Stratospheric Intrusions Using Model 205 Ozone Monitor
- Air Pollution News: Unmanned Aircraft in Antarctica
- Monitoring Tip: DewLine for Eliminating Interference from Water Vapor in Ozone Monitors
- Featured Product: GPT Scrubberless Module
- Model 211 Promotion
- The GO3 Project in Peru



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## Winter 2014

- Case Study: Cloud Lab
- Monitoring Tip: Using an Inlet Filter
- Air Pollution News: China's Air Pollution Reaches Record Levels
- Featured Product: Model 306 Ozone Calibration Source
- Symposium on the Anthropocene: Celebration of Paul Crutzen's 80th Birthday





### Fall 2013

- Case Study: St. Louis Ozone Gardens
- Monitoring Tip: Is Your Ozone Monitor Lamp Noisy?
- Air Pollution News: Ozone Linked to Heart Disease
- New Product: Model 405 nm NO<sub>2</sub>/NO/NO<sub>x</sub> Monitor for Direct Measurement of NO<sub>2</sub> by Absorbance
- GO3 Project Newsletter



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### Summer 2013

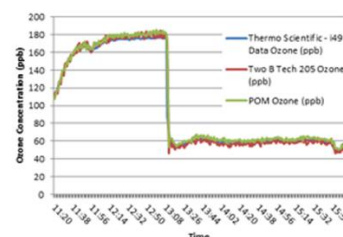
- Case Study: O-Buoy - Network of Arctic Ocean Chemical Sensors
- Monitoring Tip: Startup Time Required for Operation of Ozone Monitors at Low Temperatures
- Air Pollution News: Over 2 Million People are Dying Annually
- Featured Product: Model 205 Dual Beam Ozone Monitor™
- CO<sub>2</sub> Experiment



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### Spring 2013

- Monitoring Tip: Effect of Flow Rate on Ozone Measurements - Correction Factors for Slow Flow Applications
- Case Study: Testing of the Personal Ozone Monitor™ (POM™)
- Air Pollution News: Recent NASA Ozone Study May Benefit Air Standards
- Featured Product: Model 306 Ozone Calibration Source
- Black Carbon Experiment: Students Visualize and Quantify this Important air Pollutant



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### Winter 2013

- Big Order: 95 Ozone Monitors Shipped to China!
- Monitoring Tip: Cleaning Your Ozone Monitor
- Case Study: Microenvironmental Ozone Monitoring in Durham, NC
- Air Pollution News: Winter Ozone Phenomenon in Utah
- Featured Product: Model 211 Scrubberless Ozone Monitor
- Launch of AtmoChem.com



### Fall 2012

- Monitoring Tip: Use of Inlet Tubing
- Case Study: Aerial Ozone Monitoring in Washington
- Air Pollution News: Ocean Acidification: Acceleration Observed Due to CO<sub>2</sub> Emissions
- Featured Product: Personal Ozone Monitor (POM)



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### Summer 2012

- Case Study: Aircraft Studies by NOAA/ESRL/GMD
- Air Pollution News: Stressed Out Trees Contribute to Forest Haze
- Global Ozone Project

