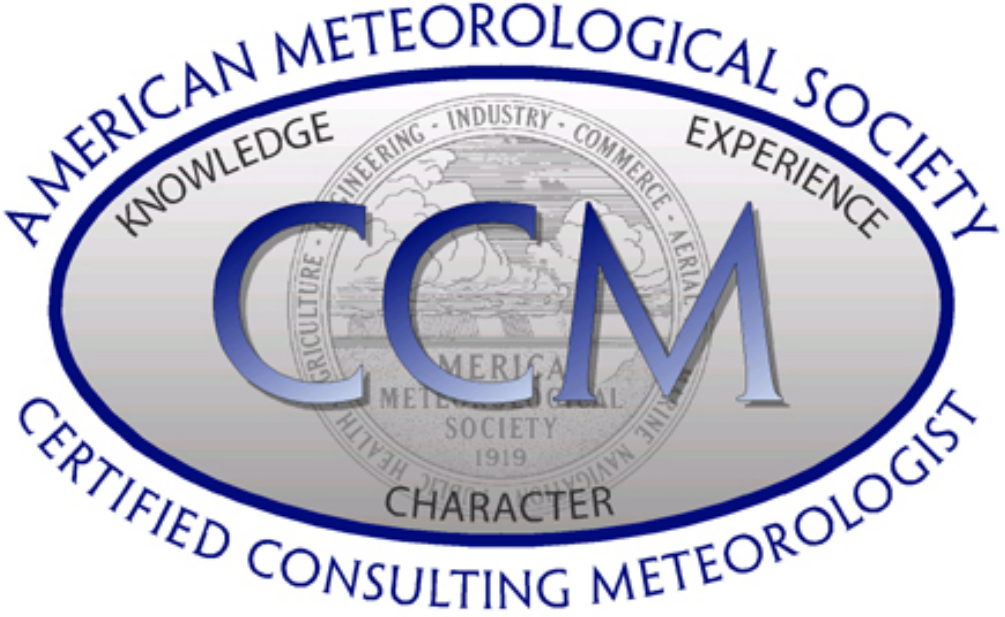
The Certified Consulting Meteorologist Program





The following are examples of active CCM's and their thoughts on the importance of the CCM Program. To know more about CCM's capabilities feel free to contact them.

We hope you enjoy the presentation.

G.Mulvey CCM # 571

Elizabeth J. Austin, Ph.D. - CCM #572

WeatherExtreme Ltd.



Capabilities, Interest & Specialties

Mesoscale Atmospheric Modeling
Aviation Weather
Forensic Meteorology
Cloud Physics & Icing
Mapping, remote sensing & GIS

Experience

WeatherExtreme Ltd. – President
Desert Research Institute/Univ. of Nevada Reno - Professor
Sierra Nevada College - Associate Professor
Carmel Research Center - Research Assistant
National Weather Service - Internship

Professional Awards

Fulbright Senior Specialist (Laboratoire de Physique de l'Atmosphère, CNRS, Universitè de La Rèunion, Rèunion Island, France)
United Nations Development Program (Invited Speaker, Intl. Skiing Industry Cooperation Forum, Harbin City, People's Republic of China)
Distinguished Teaching Award (Sierra Nevada College)

Education

Ph.D., Physics, University of Nevada, Reno
M.S., Atmospheric Physics, University of Nevada, Reno
B.S., Atmospheric Science, UCLA

Contact Information

elizabeth@weatherextreme.com
Ph: 1-775-636-8553
Fax: 1-775-636-8430
www.weatherextreme.com

Geographical Location

Fallbrook California, USA

Ron Baskett - Certified Consulting Meteorologist #346

EXPERIENCE



Lawrence Livermore National Laboratory, Deputy Division Leader & Principal Investigator
EG&G Energy Measurements, Deputy Group Leader
PLT International, Manager, Air Quality Modeling
Camp Dresser & McKee, Assist. Manager, Atmospheric Sciences Dept.
Environmental Research & Technology, Manager, Model Applications
Lockheed Electronics Co., Scientist

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Multi-disciplinary project management
Dispersion modeling and source reconstruction for accidental releases
Boundary layer, satellite, mountain, urban, and forensic meteorology
Mesoscale and wind energy forecasting
Meteorological, air quality, and remote sensing systems
Health physics and industrial hygiene

CONTACT INFORMATION

rbask@sbcglobal.net

AFFILIATIONS

American Meteorological Society, BCCM
American Nuclear Society
EnviroComp Institute
Nuclear Utilities Meteorological Users Group
US DOE Meteorological Coord. Committee
California Air Response Planning Alliance

IMPORTANCE OF THE CCM CERTIFICATION

Early in my career, the value of being a CCM became readily apparent when I interacted with clients and regulatory agencies as an air quality consultant. CCM certification plays a key role in enhancing the perception of one's expertise and judgment. Certification also heightens credibility in forensic cases as well as in public forums. Employers and attorneys alike recognize CCMs for their technical excellence and ethics. The opportunities to interact with other CCMs, share knowledge and experience, and serve on the Board continue to broaden my professionalism.

EDUCATION

B.S. and M.S. in Atmospheric Science
University of California, Davis, CA

GEOGRAPHICAL LOCATION

San Francisco Bay Area,
California, USA

Randall Bass- Certified Consulting Meteorologist # 703

EXPERIENCE
Bass Weather Services, LLC – Founder and President
Federal Aviation Administration – Manager, Convective Weather Research Program; Manager, Advanced Weather Radar Techniques Program
Exelis, Inc – Senior Meteorologist
US Air Force, Retired – Staff Weather Officer, Flight Commander





Bass Weather Services, LLC

Contact Information
Bassweather@gmail.com
703-330-5751
www.bassweather.com

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES
Expert Witness Testimony/ Forensic Meteorology
Weather Industry and Business Consulting
Agricultural, Landscaping and Construction Forecasting
Emergency Management Preparation
Event Planning
Education

IMPORTANCE OF CERTIFICATION
Up until a few years ago, I had no interest in the CCM. "What good would it do since I'm already a career meteorologist?" I thought. Fortunately I changed my mind. The certification goes beyond just another certificate on the wall or footnote on my resume. Certification shows that I am a Subject Matter Expert in my field, and provides my customers and clients greater confidence in the quality and reliability of the products and services they receive. It's also helped in my government position, giving my colleagues trust and reliance in my opinions and decisions. It's one of the best decisions I've ever made.

AFFILIATIONS
American Meteorological Society
National Weather Association

EDUCATION

M.S.	Meteorology	Texas A&M University
B.S.	Meteorology	North Carolina State University

GEOGRAPHICAL LOCATION
Manassas, VA

Thomas E. Bellinger

Certified Consulting Meteorologist #624



Y-12 National Security Complex

t.bellinger@insightbb.com
217-415-2258
865-241-6153

CAPABILITIES, INTEREST & SPECIALTIES

Air Pollution
Applied Meteorology
Consulting Services
Modeling Analyses and Studies
Research / Development
Marine and Coastal Meteorology
Monitoring, Instrumentation, and Remote Sensing

IMPORTANCE OF THE CCM CERTIFICATION

CCM Certification for me turned out to be a lesson in credibility. After years of numerous CCM's encouraging me to obtain the CCM Certification, I reluctantly submitted my application. I really thought that it would not be worth the effort. Once I had achieved the CCM Certification, I found out that I was greatly mistaken. Although I have always strived to do things with excellence, what changed for me was the way my peers, colleagues and co-workers viewed me and the work I performed. It's been a world of difference!!

AFFILIATIONS

American Meteorological Society
Nuclear Utility Meteorological data Users Group
Emergency Management Issues Special Interest Group
Knoxville Football Officials Association

EXPERIENCE

BWXT Y-12 National Security Complex – Site Meteorologist
Illinois Emergency Management – Nuclear Safety Scientist
Toledo Edison – Environmental Specialist
Nebraska Public Power – Environmental Specialist

EDUCATION

B.S., Geography/Meteorology
University of Nebraska-Lincoln

GEOGRAPHICAL LOCATION

Illinois and Tennessee

Matt Bunkers - Certified Consulting Meteorologist #731



EXPERIENCE

Recently, I have worked on cases involving (i) damaging thunderstorm winds, (ii) determination and timing of winter precipitation types, (iii) presentations on storm observing, photography, and safety, (iv) a general radar/hail project, (v) a radar analysis of hail damage to crops, (vi) a technical review of a meteorological book, and (vii) fire-weather observations and research papers.



STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

I have 25+ years of weather analysis and forecasting experience. My specialties include forensic meteorology, weather and forecasting, severe storms, flooding, winter weather, fire weather, applied climate and meteorology, agriculture, education and training, statistics, and technical editing.

CONTACT INFORMATION

605-390-7243 (mobile)
nrnplnsweather@gmail.com
http://www.npweather.com

AFFILIATIONS

American Meteorological Society
Association of Certified Meteorologists
National Weather Association
Severe Local Storms Committee

IMPORTANCE OF THE CCM CERTIFICATION

I believe the CCM designation is important from a business standpoint as well as for professional development. Regarding business, being a CCM helps to legitimize the work that we do as consulting meteorologists, and provides a standard for industry to look to when searching for such services. In terms of professional development, this pushes active CCMs to keep current in the latest research, technology advancements, and training opportunities. Finally, earning my CCM designation has opened the door for me to meet people outside of my typical area of expertise, and thus has expanded my network and pushed my limits of personal development.

EDUCATION

B.S., Interdisciplinary Sciences
M.S., Meteorology
Ph.D., Atmospheric, Environmental, & Water Resources
(All from South Dakota School of Mines & Technology, Rapid City, SD)

GEOGRAPHICAL LOCATION

Based out of Rapid City, SD
Northern Plains/Midwest/US

Professor Steven Businger

HI Wx Consulting

CCM Certification gives my clients confidence that their problem is receiving professional attention.



Expertise

Expertise in forensic meteorology, specializing in hurricanes, flooding, storm related hazard reconstruction, and pollution dispersion. Steve has presented depositions and trial testimony in numerous cases since 1987.

Publications

More than sixty peer reviewed technical articles in professional journals on various topics including midlatitude cyclones, severe storms, flash flooding, hurricanes, acid rain, atmospheric pollution dispersion and weather forecasting.

Funded Research

Awards for funded research projects from NSF, NOAA, EPA, ONR, etc., totaling > $7 million.

Education:

Ph.D., Atmospheric Sciences, University of Washington, 1986

M.S., Astro-Geophysics, University of Colorado, 1978

B.S., Atmospheric Sci., University of Washington,1975 cum laude

Dr. Steven Businger, Ph.D., C.C.M. (#511)
Department of Meteorology
University of Hawaii
2525 Correa Road
Honolulu. Hawaii 96822
(808) 956-2569, (808 429-7251
email: businger@hawaii.edu
http://weather.hawaii.edu

AMERICAN METEOROLOGICAL SOCIETY
KNOWLEDGE · EXPERIENCE
1957 CCM 50th ANNIVERSARY 2007
CHARACTER
CERTIFIED CONSULTING METEOROLOGIST

Jennifer M. Call

Certified Consulting Meteorologist #674

OMICRON RESEARCH CORPORATION

jennifer.m.call@gmail.com

256-603-1159

CAPABILITIES, INTEREST & SPECIALTIES

Air Pollution
Applied Meteorology and Climatology
Forecasting and Weather Prediction
Industry and Specialty Areas
Monitoring and Instrumentation
Systems Engineering for Airspace Software
Technical Writing

Subject Matter Expert (SME) in the area of meteorological monitoring programs as they relate to 10CFR50.59 Changes, Tests and Experiments for plants with nuclear operating licenses



IMPORTANCE OF THE CCM CERTIFICATION

CCM Certification has given my customers an added level of confidence in my skills and ethical integrity with regards to my support of their projects. It challenges me to stay at the top of the industry by continually earning professional development credits. It also provides a network of CCMs in which knowledge exchange can occur amongst highly dedicated professionals. I recommend this valuable certification to both prospects and their respective employers.

AFFILIATIONS

ANSI/ANS-3.11 Working Group, Co-chair for 2015 Revision
American Meteorological Society
Nuclear Utility Meteorological data Users Group (NUMUG)
National Weather Association

EXPERIENCE

Omicron Research Corporation – Systems Engineer (Current)
Tennessee Valley Authority – Senior Meteorologist
Over 10 Years Experience In:
Project and Budget Management, Air Quality Support, Nuclear Power Support, Quality Assurance and Document Preparation, Data Management, Forecast Support

EDUCATION

B.S. & M.S., Geosciences
Mississippi State University

GEOGRAPHICAL LOCATION

Alabama and Tennessee

James Caron - Certified Consulting Meteorologist #652



EXPERIENCE

United States Air Force – Meteorology Officer
Major Global Bank – Energy Commodities Meteorologist
Major Global Bank – Senior Energy Commodities Meteorologist

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Aviation Meteorology
Energy Commodities Meteorology
Agricultural Commodities Meteorology

AFFILIATIONS

American Meteorological Society

EDUCATION

B.S., Atmospheric Sciences, University of Arizona

GEOGRAPHICAL LOCATION

Texas, USA

CONTACT INFORMATION

E-mail james.caron@hotmail.com
Tel. 1 281 545 9638

IMPORTANCE OF THE CCM CERTIFICATION

As a certified consulting meteorologist, I am charged with having proper knowledge, experience and character that are required of clients to whom I am held accountable.
The military is highly dependent upon fast and accurate weather forecasts; the private sector is no different. Split second decisions have to be made based on limited amounts of data which create an extremely high-stress environment. Furthermore, not only having the ability to develop an accurate weather forecast but to present your findings in a logical and straightforward manner is highly regarded in a consulting role.
The CCM certification is a sign of dedication and passion for the meteorological career field.

Dr. Richard L. Carpenter, Jr.
Certified Consulting Meteorologist (#626)



Weather Decision Technologies, Inc.
Norman, OK
rcarpenter@wdtinc.com
405-579-7675 ext 229

AFFILIATIONS
American Meteorological Society

CAPABILITIES, INTERESTS & SPECIALTIES
Modeling Analyses and Studies
Research and Development
Aviation-related Meteorology
Applied Meteorology
Consulting Services
Forensic Meteorology
Expert Testimony

IMPORTANCE OF THE CCM CERTIFICATION
The CCM certification provides my clients confidence that they are partnering with someone who has not only the education and experience to meet their needs, but also the integrity and applied knowledge necessary to provide them with the highest level of service. My company benefits by having employees who are certified by their peers as having achieved, and are dedicated to maintaining, these high standards.

EXPERIENCE
Weather Decision Technologies – V.P. Numerical Modeling
University of Oklahoma – Senior Research Scientist

EDUCATION
Ph.D., Meteorology, University of Oklahoma, 1994
M.S., Meteorology, University of Oklahoma, 1988
B.S with Honors, Atmospheric Science, University of California at Davis, 1985

Robert L. Cohen - Certified Consulting Meteorologist #497

EXPERIENCE

Aerospace & Marine
Presently; Sr. Consulting Meteorologist
Weathernews Oceanroutes
1982-2006 Mgr Metocean Science

CONTACT INFORMATION
bcohen@amiwx.com
408 368 5503

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Marine meteorological and oceanographic applications
Forensic marine meteorology
Climatological studies
Marine transportation studies
Air-sea interaction

IMPORTANCE OF THE CCM CERTIFICATION

My certification has provided additional opportunities for consulting in forensic meteorology and engineering applications as the certification is well respected by attorneys and engineers.

It has also allowed for a higher level of respect among fellow meteorologists.

I am committed to maintaining technical expertise and ethical standards in order to uphold the reputation of the certification, and I know that other CCMs will do the same.

AFFILIATIONS

- American Meteorological Society
- American Geophysical Union
- The Oceanography Society
- Marine Technology Society

EDUCATION

M.S. Physical Oceanography, Texas A&M University
B.S. Meteorology, Pennsylvania State University

GEOGRAPHICAL LOCATION

San Francisco Bay area

John W. (Bill) Conway
Certified Consulting Meteorologist (#625)



Weather Decision Technologies, Inc.
Norman, OK
bconway@wdtinc.com
405-579-7675 ext 229

CAPABILITIES, INTERESTS & SPECIALTIES
Applied Meteorology
Consulting Services
Forensic Meteorology
Research and Development
Field Studies, Monitoring, Instrumentation, and Remote Sensing
Forecasting and Weather Prediction
Expert Testimony
Aviation-related Meteorology
Hydrometeorology
Tropical Meteorology

AFFILIATIONS
American Meteorological Society
National Weather Association
National Council of Industrial Meteorologists

IMPORTANCE OF THE CCM CERTIFICATION
The CCM represents a significant career accomplishment. It gives my customers an added level of confidence in my knowledge and the integrity of my services.

EXPERIENCE
Weather Decision Technologies – V.P. Custom Systems
Univ. of Oklahoma (National Severe Storms Lab) – Research Associate
Aeromet (Kwajalein Missile Range) – Meteorologist
NCAR – Associate Scientist

EDUCATION
M.S., Meteorology, University of Oklahoma, 1990
B.S. with Honors, Meteorology, Metropolitan State College, Denver
A.S., Music, University of New Mexico, 1984

Gerald Dittberner - Certified Consulting Meteorologist # 409

G. J. Dittberner Science and Technology, LLC



EXPERIENCE

Consultant & Founder - G. J. Dittberner Science and Technology
Harris Corporation – GOES-R Product Generation Scientist and Engineer
NOAA – GOES Program Manager, Advanced Remote Sensing Technology
Goddard Contractor (GSFC) – TRMM Science Data and Information
Aerospace Industry - Space Station, Small Satellites
Air Force Meteorologist – AFWA, Climatology Center, Greenland, Europe

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Satellite meteorology & environmental remote sensing
Meteorological and environmental Satellites
Climate Science
Advanced satellite technology
Data Processing

Contact Information
GJDittberner@GJDSciTech.com
703-403-0351 (cell)

AFFILIATIONS

Fellow, American Meteorological Society (AMS)
Fellow, Royal Meteorological Society (RMetS)
American Geophysical Union (AGU)
American Institute for Aeronautics and Astronautics (AIAA)
Laureate, Theta Tau Engineering Fraternity Hall of Fame
Sigma Xi, The Research Society

IMPORTANCE OF CERTIFICATION

Affirmation of personal skill level
Opportunity to contribute to AMS
Chance to be participate in many different facets of Meteorology
Membership on CCM Board was chance to help others succeed
Preparation for being Consultant after government retirement
Ability to increase knowledge about interdisciplinary applications

EDUCATION

Ph.D.,	Meteorology (Climatology), University of Wisconsin
M.S.,	Meteorology and Space Science & Engineering, University of Wisconsin
B.E.E.,	Electrical Engineering, University of Minnesota

GEOGRAPHICAL LOCATION

Springfield, VA

Phil Falconer – Certified Consulting Meteorologist # 411



Experience

Falconer Weather Information Service, LLC (Member/Manager)

SUNYA - Atmospheric Science Research Center (Research Associate)

NOAA - Air Resources Laboratory

Professional Interests & Capabilities

Forensic Meteorological Investigations

Affiliations

American Meteorological Society

National Council of Industrial Meteorologists

Education

B.S. (1971) Penn State University

M.S. (1973) University of Wisconsin-Madison

Post-Graduate Studies (1973-75) University of Bonn, West Germany

Geographical Location

Scotia, NY - Nationwide Services

Contact Information

E-mail: pfalcone@nycap.rr.com

Tel 518-399-5388 Fax 518-399-5320

Importance of CCM Rating

I obtained my CCM rating in September 1987 to demonstrate both my commitment to excellence in my chosen area of specialization - forensic meteorological services - and my willingness to participate in a fair but rigorous, peer testing process. The experience has been continually and mutually rewarding to me and to my clients. I have found that those who have attained certification and faithfully remained current in their field have a decided competitive advantage over others in the private sector marketplace. The CCM distinction is particularly appealing for meteorological witnesses who must first be "qualified" to present weather testimony and expert opinions in legal proceedings.

Jim Foerster

Certified Consulting Meteorologist #566

Experience

DTN/Meteorlogix – Director of Meteorology Operations

DTN/Meteorlogix – Product Management

Weathertraining.com – President and Founder



Contact Information
Email: Jim.Foerster@dtn.com
952-882-4302

SMARTER DECISIONS

•Importance of the CCM Certification

• **Throughout my professional career I have had the opportunity to travel around the country representing DTN/Meteorlogix in many professional settings. I believe my CCM Certification has given me the ability to speak clearly and confidently about my passion for the science of meteorology while at the same time leading to a high degree of credibility and respect from my employees and coworkers.**

•Education

•B.S., Meteorology (June 1983) University of Wisconsin

•Geographical Location

•Minneapolis, MN (USA)

Ryan A. Gesser - Certified Consulting Meteorologist #634



EXPERIENCE

Georgia-Pacific – Air Quality Manager

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Air Quality Meteorology and Modeling
Air Quality Permitting and Compliance Management
Risk Assessment
Professional Education
Weather Forecasting and Analysis

CONTACT INFORMATION

ryan.gesser@gapac.com
404-652-6933

AFFILIATIONS

American Meteorological Society
Air & Waste Management Association
National Council of Industrial Meteorologists

IMPORTANCE OF THE CCM CERTIFICATION

The Certified Consulting Meteorologist (CCM) designation is the primary indicator of the competence and character of a professional meteorologist and represents his or her commitment to the vocation. Experienced meteorologists play an ever-increasing role as essential team members who work in collaboration with engineers, business leaders, policy makers, regulatory authorities, and other physical scientists to solve problems in a wide variety of fields.

Within the field of environmental management, CCMs play a critical role in evaluating and articulating the impacts of economic and technological growth on environmental quality, specifically in terms of air quality, climate change, and associated health impacts. Effective environmental management requires clear understanding and communication of potential impacts – and their associated risks and uncertainties – on the natural and engineered environment and its inhabitants. CCMs offer proven knowledge, specialized experience, and effective communication skills to develop solutions to complex and continuously changing environmental problems.

EDUCATION

M.S., Environmental Engineering, Georgia Tech
M.S., Earth and Atmospheric Sciences, Georgia Tech
B.S., Applied Mathematics, University of Virginia

GEOGRAPHICAL LOCATION

Atlanta, Georgia, USA

Alan Gibbs - Certified Consulting Meteorologist #581



EXPERIENCE

Dept of Air Force-First Civilian Weather Career Field Administrator
Dept of Air Force-First Civilian Director of Weather at Hdqs Air Force Space Command
Southwest Research Institute-Lead Meteorologist
U.S. Air Force-Commander, Det 9, 31WS & Chief, Weather Support Division, Hdqs Air Mobility Command
NWS-Resources Meteorologist & General Forecaster

CONTACT INFORMATION

E-mail: alan.gibbs@att.net
Cell (719) 661-9731
W.P. (210) 565-22205

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Applied Meteorology, Weather Training and Education, Military Weather Operations, Aviation and Fire Weather Operations

AFFILIATIONS

- American Meteorological Society
- Air Weather Association
- Military Officers Association of America

IMPORTANCE OF THE CCM CERTIFICATION

After serving in Air Force Weather for 20 years, I looked forward to pursuing new challenges in the commercial and/or government weather communities. To ease this transition, many of my colleagues and peers encouraged me to look into the CCM program as a way of sustaining my technical knowledge and advertising my worthiness to potential employers. In my current position with the Department of the Air Force, the CCM credential definitely validates my expertise when coordinating with other federal agencies and commercial contractors. Also, when I made a 180 degree turn and transferred to the NWS from 2006-2010, my CCM background was a key selling point in getting back to day-to-day weather operations. Bottom line—I whole-heartedly encourage new as well as experienced meteorologists to consider applying for the CCM program!

EDUCATION

M.S., Management, Troy State University, Troy, AL
U.S. Air Force Weather Officer Certification, Texas A&M University, B-CS, TX
B.S., Industrial Technology, Texas A&M University, B-CS, TX

GEOGRAPHICAL LOCATION

Air Force Personnel Ctr
Randolph Air Force Base
San Antonio, TX 78150

George D. Greenly Jr., Certified Consulting Meteorologist # 214



EXPERIENCE

U.S. Air Force Air Weather Service Staff Meteorologist
Atmospheric Physicist, Lawrence Livermore National Laboratory, CA
Air Quality Manager, International Technology Corp., Los Angeles, CA
Sectional Scientist, Battelle North West Laboratories, Amarillo, TX
Air Quality Compliance Manager, Maricopa County, AZ
Adjunct Professor, Estrella Mountain Community College, AZ

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Meteorology & Climatology Training and Education
Environmental Management System Implementation & Training
Environmental Impact Assessment and Impact Statements
Air Quality Monitoring and Modeling and Compliance
Forensic Meteorology

CONTACT INFORMATION
gsqrd@jremail.net
Tel. (623)-910-6581 (cell)
Tel. (210)-319-3323

IMPORTANCE OF THE CCM CERTIFICATION

The CCM Credential is more important now than at any other time in it's history. It tells employers, clients, colleagues and others that you have demonstrated the breadth and depth of your knowledge and experience to your peers. It shows that you have demonstrated via a rigorous application and examination process that you are one step ahead of the rest. It signals your commitment to professionalism in the science required for sustainable growth of knowledge about our earth-atmosphere system. In the past the CCM credential was thought to be only for those who were independently working on problems or projects directly related to incidents associated with "weather happenings." Today CCMs are contributing to the knowledge of our total Earth-Atmosphere system through employment within Academia, Government and the private sector.

As a CCM I have been involved with some extremely varied and interesting projects:

- USAF Space Shuttle Program
- Atmospheric releases of toxic substances, both Nationally and Internationally
- Environmental Management Systems Implementation at a large Aerospace Corp.
- Radiological and non-radiological ambient air monitoring and modeling
- Major National Environmental Policy Act (NEPA) Impact Assessments and Statements
- Liaison with a foreign government's Ministry of Defense
- Nuclear emergency search team efforts

The CCM credential establishes your credibility as someone committed to his/her continuing professional development and improvement, and one dedicated to demonstrating a commitment to excellence in their professional field of endeavor.

AFFILIATIONS

- American Meteorological Society (Board of Certified Consulting Meteorologists 2008–2010)
- Institute of Professional Environmental Practice (QEP Emeritus)

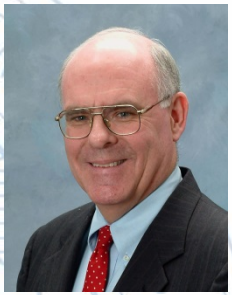
EDUCATION

C. Phil. Atmospheric Science, U. of California, Davis, CA
M.S. Meteorology, U. of Oklahoma, Norman, OK
B.S. Meteorology, Florida State U., Tallahassee, FL
USAF Air Command and Staff College, Air University, Maxwell AFB, AL
USAF Squadron Officers School, Air University, Maxwell AFB, AL

GEOGRAPHICAL LOCATION

San Antonio, Texas, USA

Stephen W. Harned - Certified Consulting Meteorologist #622



EXPERIENCE
Atlantic States Weather, Inc. – President
National Weather Service – Meteorologist-In-Charge,
Raleigh, NC & Houston TX
North Carolina State University - Lecturer

CONTACT INFORMATION
sharned@asweather.com
1-919-481-4020

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES
Forensic Meteorology
Expert Witness Services
Weather Event Reconstruction
Climatological Studies
Program Development Support for Government Agencies

IMPORTANCE OF THE CCM CERTIFICATION
Since meteorology is basically an unregulated profession in this country, the CCM Certification has allowed me to bring strong professional credentials into the legal arena. With numerous "experts" offering their services in support of legal proceedings, the CCM designation has given clients the comfort of knowing that I bring high qualities of knowledge, experience, and ethical performance to the case at hand.

AFFILIATIONS
•American Meteorological Society
•National Weather Association, Executive Director
•National Council of Industrial Meteorologists

EDUCATION
B.S., Meteorology, Florida State University

GEOGRAPHICAL LOCATION
North Carolina, USA but provide services for clients across the country

Jill F. Hasling - Certified Consulting Meteorologist #496



EXPERIENCE

Weather Research Center and
The John C. Freeman Weather Museum - President
Institute for Storm Research - Vice President

Weather Research Center

Contact Information
E-mail: wrc@wxresearch.org
Tel: 713-529-3076

IMPORTANCE OF THE CCM CERTIFICATION

CCM Certification has given me the opportunity to network with a very elite and distinguished group of scientists dedicated to the profession of meteorology. The CCM Certification establishes my credibility in my forensic work as well as educational and research projects that I am involved in.

The John C. Freeman WEATHER MUSEUM

STATEMENT OF CAPABILITIES, INTERESTS & SPECIALITIES

Marine and Tropical Meteorology
Education and Training
Forensic Meteorology
Applied Meteorology

AFFLIATIONS

- American Meteorological Society
- NCIM
- Marine Technology Society
- National Weather Association

EDUCATION

B.A. University of St. Thomas
A.A. South Texas Junior College

GEOGRAPHICAL LOCATION

Houston, Texas USA

David W. Heinold - Certified Consulting Meteorologist #435

EXPERIENCE

ENSR, formerly ERT – Air Quality Meteorologist
– Risk Management Specialist



ENSR | AECOM

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Accidental Release Prevention and Risk Management
Hazardous Pollutant Impact and Health Risk Assessment
Air Quality Modeling
Air Permitting
Visibility Assessment
Air Quality Monitoring and Data Analysis

CONTACT INFORMATION

dheinold@ENSR.AECOM.com
Tel: 978-589-3166
Fax: 978-589-3374

AFFILIATIONS

- American Meteorological Society
- Air & Waste Management Association

IMPORTANCE OF THE CCM CERTIFICATION

CCM Certification serves as recognition by the AMS that I have developed and maintained a high level of expertise in the field, abide by an unqualified standard of ethics and am a leader in the professional community. In my work as an air quality consultant and risk management specialist I am often called upon to provide expert opinion and testimony. The CCM certification helps in establishing the credibility that can help translate sound technical analysis into effective decision making.

EDUCATION

M.S., Meteorology, Massachusetts Institute of Technology, Cambridge, MA
M.S., Atmospheric Sciences, State University of New York at Albany
B.S., Physics, Fairleigh Dickinson University, Teaneck, NJ

GEOGRAPHICAL LOCATION

Massachusetts, USA

John F. Henz - Certified Consulting Meteorologist #270



EXPERIENCE

Dewberry – Senior Meteorologist/Technical Leader
HDR Engineering Inc. – Atmospheric Science Practice Leader
Henz Meteorological Services, CEO, President
Inspector Generals , Dept of Commerce, Transportation - Consultant
GRD Weather Center, President
Geophysical R&D Corporation – President, Consulting Meteorologist
Air Weather Service, MAC, USAF, Weather officer

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Hydro-meteorology
Meso-scale Meteorology
Water Supply and Climate Variability
High Impact Weather
Forensic Meteorology
Radar-rainfall Estimation/Basin Calibration
Climate Change and Variability
Weather Prediction
Flood Warning System Design

AFFILIATIONS

- American Meteorological Society
- Association of State Floodplain Managers
- American Water Resource Association
- American Society of Dam Safety Officers
- National Hydrologic Warning Council
- National Weather Association

EDUCATION

M.S., Atmospheric Science, Colorado State University, Fort Collins, CO
B.S., Meteorology, University of Wisconsin, Madison, WI.

CONTACT INFORMATION

E-mail jhenz@dewberry.com
Tel. 1 303 951 0647

IMPORTANCE OF THE CCM CERTIFICATION

While attending meteorology classes at Wisconsin we were taught to "*sift and winnow*" the weather observations and theory for the best answers science could provide. Knowledge was constantly evolving then as it is today. Knowledge, experience and character are the three hallmarks of being a CCM. They embody the characteristics of someone committed to excellence in the field of meteorology.

As a former Chair of the CCM Board I had the great honor of learning almost daily about the contributions being made by CCMs in business, academics, government service and the private sector. If you look through the organization of the AMS, federal labs, university faculties and Fortune 500 companies you find CCMs in positions of importance. Many CCMs are small business owners and directly represent the profession in the business community. CCM certification is a direct reflection of their skills and dedication.

The CCM program endeavors to enhance the recognition of CCMs by setting a high standard of excellence and commitment to professionalism. CCMs are committed to the application of the scientific method in solving problems while using a balance between academic training, emerging science and experience. The CCM program provides a basis on which a client seeking assistance on problems of a meteorological nature may be confident of mature, competent, and ethical professional counsel by a CCM. Being a CCM has been a steadfast guideline for my professional growth and client recognition.

GEOGRAPHICAL LOCATION

Colorado, Arizona, USA

Robert M. Iwanchuk - Certified Consulting Meteorologist #477

ENSR | AECOM

EXPERIENCE

ENSR, formerly ERT – Senior Program Manager
– Technical Director/Air Quality Services



CONTACT INFORMATION

riwanchuk@ensr.aecom.com
Tel: 978-589-3265
Fax: 978-589-3374

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Air Regulatory Consulting and Analysis
Air Quality Permitting
Air Quality Compliance Studies
Dispersion Modeling
Air Quality Monitoring and Data Analysis

IMPORTANCE OF THE CCM CERTIFICATION

The CCM Certification and ongoing professional development program provides my clients the assurance that the air quality consulting services I provide are based on a foundation of having met (and will continue to meet) high standards for technical competence, character and experience. The CCM certification signifies my commitment to field of consulting meteorology and also enhances my professional reputation within air quality consulting community and within my own organization.

AFFILIATIONS

- American Meteorological Society
- Air & Waste Management Association
- Trade Association of the Pulp and Paper Industry

EDUCATION

M.S., Meteorology, Massachusetts Institute of Technology, Cambridge, MA
B.S., Mathematics, Kent State University, Kent, OH

GEOGRAPHICAL LOCATION

Massachusetts, USA

Jeffry P. Johnson

Certified Consulting Meteorologist #523

Experience

DTN/Meteorlogix – Chief Science Officer
DTN/Meteorlogix – Director of Meteorology Operations
Kavouras, Inc. – Forecasting, training
Republic Airlines – Aviation meteorologist
American Airlines – Aviation meteorologist
CCM since 1993



Contact Information
Email: Jeff.Johnson@dtn.com
952-882-4321

SMARTER DECISIONS

Importance of the CCM Certification

The process of obtaining the CCM certification was a growth experience in my professional meteorological career. It gave me added confidence in my abilities to look at problems and issues and then to develop recommendations and solutions. The CCM seal carries with it the motivation and responsibility to do my utmost within the profession to apply my skills at the highest levels.

Education

B.S., Meteorology (Dec 1977) University of Wisconsin

Geographical Location

Minneapolis, MN (USA)

Pamela Knox CCM #587

Specializing in forensic meteorology and climate statistics for businesses



Contact me at:
pnknox@yahoo.com
706-542-6067 days
706-543-9560 evenings

Located in Athens, GA

Experience:

Georgia Assistant State Climatologist:
University of Georgia, Athens
Wisconsin State Climatologist:
University of Wisconsin-Madison
Meteorologist, National Weather Service,
Silver Spring, MD and Fort Worth, TX
Adjunct Assistant Professor:
Valparaiso University, Indiana
Instructor of physics and astronomy:
Calvin College, Grand Rapids, MI

Importance of the CCM Certification:

As a forensic meteorologist the CCM Certification gives me instant credibility with lawyers looking for expert witnesses in weather- and climate-related cases. Having a CCM certificate shows them that I am well-qualified to answer questions on the impacts of weather on accidents and on personal and property damage. It also highlights my expertise in a broad variety of weather-related topics and shows I am prepared to answer questions on a wide variety of topics, including:

- Presence of precipitation or fog in transportation accidents
- Sun angle, cloud cover and visibility calculations
- Frequency of heavy rain in property flooding

Educational background:

ABD in meteorology, Univ. of Wisconsin-Madison
(all coursework, exams completed towards PhD)
MS in meteorology, University of Wisconsin-Madison
BS in physics, Calvin College, Grand Rapids, MI
Additional course work in civil engineering and hydrology

Affiliations:

Member, American Meteorological Society
Past President and current associate member,
American Assoc. of State Climatologists
Member, Association of American Geographers

Randy J. Lefevre — Certified Consulting Meteorologist # 629



Contact Information
randy.lefevre@apmet.net
505.898.3579

Experience

- Alliant TechSystems Inc (ATK) — Senior Scientist / Manager
- United States Air Force (USAF) Officer (Retired)

Importance Of The CCM Certification

The CCM Certification has given me the credibility and professional recognition to market my capabilities with internationally recognized contractors and federal government agencies not necessarily familiar with atmospheric science or meteorology, but they desire a professional certification for their projects. The CCM Certification has been especially beneficial with the legal community due to the requirement for high ethical standards and established/documented technical expertise.

On a personal level, being a CCM has enhanced the bond that already exists among meteorologists and AMS members. When I meet another CCM I can relate to the rigors of their certification process, but more importantly we can immediately share our past experience in consulting with clients … we can share our successes, failures and critical lessons learned.

Finally, the CCM Certification requires me to continue exploring the latest technical developments in the field of meteorology and atmospheric science. The accountability enforces my desire to grow both technically and professionally.

Statement Of Capabilities & Interests

- Applied Meteorology
- Analysis and Forecasting
- Directed Energy (Laser) Atmospheric Characterization
- Expert Testimony
- Hot Air and Gas Balloon Weather Support & Safety Training

Example Of Previous Work / Projects

- Modeling & Simulation For Government Laboratory
- Expert Testimony & Depositions For Legal Trials
- Albuquerque International Balloon Fiesta (AIBF) Meteorologist

Education

- Ph.D., Meteorology, Texas A&M University, College Station TX
- M.S., Meteorology, Naval Postgraduate School, Monterey CA
- B.A., Biology, Sonoma State University, Rohnert Park CA

Geographical Location

Albuquerque, New Mexico, USA

David R. Legates - Certified Consulting Meteorologist #597



EXPERIENCE

Delaware State Climatologist (2005-2011)
University of Delaware – Associate Professor & Professor (1999-2011)
Louisiana State University – Associate Professor (1998-1999)
Southern Regional Climate Center – Research Scientist (1998-1999)
Computational Geosciences Inc. – VP for Research (1995-2003)
University of Oklahoma – Assistant & Associate Professor (1988-1997)

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Applied & Forensic Meteorology
Research and Development
Field Studies, Monitoring, Instrumentation, and Remote Sensing
Training and Education
Expert Testimony
Climatology
Hydrometeorology

CONTACT INFORMATION

E-mail: legates@udel.edu
Tel: 1-302-831-4920

AFFILIATIONS

- American Meteorological Society
- American Water Resources Association
- Phi Beta Kappa
- Phi Kappa Phi
- Pi Mu Epsilon (Mathematics)

IMPORTANCE OF THE CCM CERTIFICATION

"My research and consulting activities have been focused in three specific areas: climatology, observation platforms, and forensic meteorology. In the academic arena, my interests have focused largely on precipitation including the accurate measurement of precipitation (most notably, snowfall) by accounting for precipitation gage measurement biases, calibration of radar estimates of rainfall, and issues related to climate change and the impact of precipitation on the hydrologic cycle. I also have been pleased to have helped design one of the densest and most comprehensive state mesonets in the country. The Delaware Environmental Observing System includes operation and maintenance of fifty weather stations in Delaware and Chester County, Pennsylvania and a vertical wind profiler as well as about 200 other observing platforms comprising a large suite of environmental measurements. This System has greatly helped me serve the public as the Delaware State Climatologist. Moreover, I have been involved with numerous court cases and engineering applications where weather and climate played an important, and sometimes pivotal, role."

"I have found it to be very rewarding and beneficial to be a CCM and I encourage others to pursue this recognition of achievement, character, and excellence."

EDUCATION

Ph.D., Climatology, University of Delaware, Newark DE
M.S., Geography/Climatology, University of Delaware, Newark DE
B.A., Mathematics and Geography, University of Delaware, Newark DE

GEOGRAPHICAL LOCATION

Delaware, USA

Walter A. Lyons - Certified Consulting Meteorologist #163



EXPERIENCE

FMA Research, Inc.- President and Senior Scientist
Sky Fire Productions, Inc. – President
Colorado State University – Research Scientist
WLS-TV, WCCO-TV, KSTP-TV – Chief Meteorologist
University of Wisconsin-Milwaukee – Associate Professor



FMA Research, Inc

Sky Fire Productions, Inc.

CONTACT INFORMATION
E-mail: WALyons@frii.com
Tel: 970-568-7664
Fax: 970-482-8627

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Atmospheric Electricity
Mesospheric Transient Luminous Events
Lightning Detection
Mesoscale Processes
Regional Modeling
Forensic Meteorology
Informal Science Education
Videography and Post Production (SD and HD)

AFFILIATIONS

- **American Meteorological Association**
- **American Geophysical Union**
- **National Weather Association**
- **National Council of Industrial Meteorologists**
- **Colorado Film and Video Association**

EDUCATION

Ph.D., Geophysical Sciences, University of Chicago
M.S., Geophysical Sciences, University of Chicago
B.S, Meteorology, Saint Louis University

IMPORTANCE OF THE CCM CERTIFICATION

The CCM program was created 50 years ago by the AMS as a public service. Then, as today, state licensing of meteorologists, as in the manner of PEs, was a distant likelihood. The CCM remains the premier designation for a meteorologist possessing the knowledge, experience and character to exemplify the highest ideals of the profession. With the additional mechanism to provide recognition of continued professional development, the CCM has attained even greater utility to the user community.

Being a CCM has been invaluable to me in dealing with the legal profession as an expert witness. When explained to lawyers, they immediately "get it" and recognize its value in dealing with judges and juries.

GEOGRAPHICAL LOCATION
Colorado, USA

Bernard N. Meisner- Certified Consulting Meteorologist #440



EXPERIENCE

National Weather Service Southern Region – Chief, Science & Training
USDA Forest Service – Research Meteorologist
Univ. St. Thomas (Houston) – Associate Professor/Department Chair
Institute for Storm Research – Research Meteorologist
Climate Analysis Center – NRC Resident Research Associate
University of Oklahoma – Visiting Assistant Professor
University of Texas – Visiting Assistant Professor
Joint Institute for Marine and Atmospheric Research – Visiting Scientist

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Forecasting and Weather Prediction
Training and Education
Tropical Meteorology
Satellite Meteorology
Climatology

AFFILIATIONS

American Meteorological Society
National Weather Association

CONTACT INFORMATION

E-mail bernard.meisner@noaa.gov
Tel. 1 817 978 1300

IMPORTANCE OF THE CCM CERTIFICATION

As a government meteorologist for the past 21 years, I consider my primary clients to be the staff in the field offices throughout our region. My Web pages result in frequent queries from the general public. Short answers I provide myself, while referring the more complex cases to my fellow CCMs. I value my certification as a CCM as an indication that I have demonstrated the high standards of knowledge, experience and character in the performance of my work.

One of my favorite quotes is from former AMS president Richard Reed: *"Anyone of sufficient experience, who is committed to raising the standards of the profession and who provides advice and services at a professional level, whether for private fee or not, should regard himself as a proper candidate for certification."* President's page, *Bull. Amer. Meteor. Soc.*, **54**, 4.

EDUCATION

Ph.D., Meteorology, University of Hawaii, Honolulu, HI
M.S., Meteorology, University of Hawaii, Honolulu, HI
B.S., Physics/German, Carnegie Mellon University, Pittsburgh, PA

GEOGRAPHICAL LOCATION

Fort Worth, Texas, USA

David Moran - Certified Consulting Meteorologist #730

EXPERIENCE

Consulting Meteorologist, Weather Decision Technologies



CONTACT INFORMATION

www.davidmoranweather.com
david@davidmoranweather.com

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Weather Analysis and Forecasting
Mesoscale Meteorology

AFFILIATIONS

American Meteorological Society
National Weather Association
National Council of Industrial Meteorologists

IMPORTANCE OF THE CCM CERTIFICATION

Getting my CCM to me was a significant accomplishment. I have always tried to do everything with excellence, but completing my CCM has increased that desire even further, especially when it comes to clients. It has also encouraged me to expand my knowledge and skill set, but also be able to contribute to the CCM community. Certification is an indication that one has the knowledge and experience to provide consulting services to clients, as well as a dedication to high ethical standards. It also gives my clients increased confidence in the services provided to them.

EDUCATION

B.S. Meteorology, University of Oklahoma (2009)
B.A. Mathematics, University of Oklahoma (2009)

GEOGRAPHICAL LOCATION

Bethany, Oklahoma

Gerry Mulvey - Certified Consulting Meteorologist #571



EXPERIENCE

University of the Incarnate Word – Assistant Professor
Northrop Grumman Corporation – Senior System Engineer/Manager
Diva Systems Corporation – Principal System Engineer
Lockheed Martin Corporation – Senior System Engineer/Manager
San Francisco State University – Lecturer
Meteorology Research, Inc. – Technical Staff Specialist/Manager
Colorado State University – Lecturer

CONTACT INFORMATION

E-mail Irish69th@msn.com
Tel. 1 210 805 3099

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Training and Education
Aerospace
Remote Sensing
Field Studies,
Instrumentation
Remote Sensing
Applied Meteorology
Weather Modification
Meteorological Ethics

IMPORTANCE OF THE CCM CERTIFICATION

CCM Certification has given me the ability to internally market myself as a meteorologist with real world experience, high ethical standards, and a dedication to maintaining technical expertise as tested and reviewed by my peers.

It may seem that working for a major aerospace corporation has nothing to do with consulting, but a system engineer changes projects frequently. Every 18 months or so finds you interviewing for a new job and presenting your credentials to another group. The CCM certification has helped in this process.

Projects include:

- Modeling of geophysical phenomena and dispersion
- Assessing the impacts of weather on system utility
- Planning, organizing, and forecasting for high altitude remote sensing data collection
- Assessing potential radome hail damage
- Developing environmental specifications
- Generating interface documents for weather forecasting system inputs
- Recommending instrumentation for moisture measurement in the water suppression cloud of a launch pad flame duct
- Defining the initial quality monitoring system for weather satellite data products

To move agilely between projects you must establish your credibility and the respect of your team members. The CCM certification has provided an independent, reliable method for my current and future employers to validate my expertise and commitment to meteorology.

AFFILIATIONS

- American Meteorological Society
- Irish Meteorological Society
- ISA, The International Society for Measurement and Control
- American Association for the Advancement of Science
- Sigma Xi, The Scientific Research Society

EDUCATION

Ph.D., Atmospheric Science, Colorado State University, Fort Collins, CO
M.S., Atmospheric Science, State University of New York at Albany, Albany, NY
B.S., Physics, York College, City University of New York, Jamaica, NY

GEOGRAPHICAL LOCATION

San Antonio, Texas USA

Chris Orr - Certified Consulting Meteorologist #579



EXPERIENCE

The Sovereign Society – Precision Profits Newsletter
Chris Orr LLC – Consulting Meteorologist
Creative Broadcast Services – Meteorologist
National American University - Lecturer
Various Firms – Supervisory Meteorologist
City Governments – Environmental Commissioner
and Water Planning Committees
John Witherspoon College - Trustee

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Advice to Hedge Funds, Individual Investors, Venture Capital Firms
Long-range Weather Forecasting (2 weeks to 1 year)
Forensics/Expert Witness
Applied Meteorology
Extreme Weather Forecasting
Training and Education

CONTACT INFORMATION

Email: chris@orrweather.com
Websites: **ChrisOrrWeather.com**
and **TheSovereignInvestor.com**

IMPORTANCE OF THE CCM CERTIFICATION

The CCM certification has opened up opportunities for me in forensic meteorology and as an expert witness in cases ranging from wildfires to homicide to fatal accidents.

it is much easier establish rapport with other professionals, such as professional engineers, as a CCM because it shows that I've gone to the extra effort to have the AMS validate my knowledge, experience and character.

Likewise, it is "street cred" when I discuss how long-range weather patterns will affect investors' multi-million (or billion) dollar investments in new businesses, equities and commodities. Clients know to expect a high level of accountability and expertise from a CCM.

The CCM requires "knowledge, experience and character" on the front end, but also requires me to continue my education and to grow in the profession – which is good for me and for my clients.

AFFILIATIONS

•American Meteorological Society
•Black Hills Chapter of the AMS

EDUCATION

Michigan Technological University

GEOGRAPHICAL LOCATION

South Dakota and Florida

Robert J. Paine - Certified Consulting Meteorologist #336

ENSR | AECOM

EXPERIENCE

ENSR,
formerly ERT

Air Pollution Meteorology Applications
Environmental Impact Assessments
Boundary-Layer Meteorology Research



STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Dispersion Modeling Design and Evaluation
Air Quality Modeling
Air Permitting
Visibility Assessment
Air Quality Monitoring and Data Analysis
Wind Energy Assessments
Expert Witness Testimony

CONTACT INFORMATION

bpaine@ensr.aecom.com
Tel: 978-589-3164
Fax: 978-589-3374

IMPORTANCE OF THE CCM CERTIFICATION

My work involves meteorologically-related analyses that are subject to review and public scrutiny. The CCM certification and ongoing certification review provides recognition by the AMS that I have developed and maintained a high level of expertise in the field, adhere to a strong standard of ethics, and am engaged in the professional community. In my work as an air quality consultant, I am often called upon to provide scientific advice for carrying out complex scientific analyses. Occasionally, I need to provide expert witness testimony regarding the work that I direct. The CCM certification and adherence to its principles helps to establish a high level of standards that enhances the credibility of my work and guides the procedures I use to provide sound technical analyses and effective decision making.

AFFILIATIONS

- American Meteorological Society
- Air & Waste Management Association
- Sigma Xi

EDUCATION

M.S., Meteorology, Massachusetts Institute of Technology, Cambridge, MA
B.S., Atmospheric Sciences, State University of New York at Albany (Albany, NY)

GEOGRAPHICAL LOCATION

Massachusetts, USA

Sean Potter - Certified Consulting Meteorologist #615



EXPERIENCE

ABC News: Meteorologist (off-air), Good Morning America Weekend Edition
UCAR: Web and Communications Specialist, U.S. Climate Change Science Program
STG, Inc.: Meteorological Data Analyst, NWS Office of Hydrologic Development
StormCenter Communications: Environmental Content Producer
Southeast Regional Climate Center: Service Climatologist
KYMA-TV: Meteorologist and Science Reporter
Indiana University: Associate Instructor

Weather Detectives

Forensic Meteorology ● Data Retrieval and Analysis
Expert Witness Testimony ● Science Writing

444 East 85th St. #2B
New York, NY 10028

212-988-4173 (phone)
212-988-0568 (fax)

www.weatherdetectives.com
info@weatherdetectives.com



AFFILIATIONS

American Meteorological Society (AMS)
- •Certified Consulting Meteorologist (CCM) #615
- •Television Seal of Approval #1093
- •Member, CWCE Steering Committee
- •CCM ad hoc marketing committee

National Council of Industrial Meteorologists (NCIM)
- •President, 2006-2007

National Weather Association (NWA)
National Association of Science Writers (NASW)
International Commission on History of Meteorology (ICHM)
Weatherwise Magazine, Contributing Editor

IMPORTANCE OF THE CCM CERTIFICATION

Obtaining my CCM has been perhaps the greatest single thing I have done for my career. It has opened up so many doors for me professionally and allowed me to utilize my skills, abilities, and experience to their fullest extents. To me, one of the great things about being a CCM is that it constantly challenges me to further myself through continuing education, professional development, and active involvement in professional organizations, not only in an effort to better myself as a professional, but to help improve our field in general.

EDUCATION

M.S., Atmospheric Science Program, Department of Geography, Indiana University
B.S., Meteorology, St. Cloud State University

GEOGRAPHICAL LOCATION

New York City, USA

Stephen T. Rich - Certified Consulting Meteorologist #656



Southeast Weather Consulting, LLC
www.seweathercon.com



EXPERIENCE

Southeast Weather Consulting, LLC (and affiliate Northwest Weather Consulting) - President
NOAA/National Weather Service - Meteorologist in Charge (MIC), Charleston, SC (10 years), Deputy MIC, Jackson, MS (3 years)
NWS Southern Region HQ, Fort Worth, TX -- Techniques Development Meteorologist, Scientific Services Division
Other NWS experience --field forecast and warning operations including 10 years at lead forecaster level, program management, warning coordination, preparedness, training, and NCEP experience.

CONTACT INFORMATION

weathercon@bellsouth.net
(843) 302-1603

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Forensic meteorology and expert testimony
Analysis and reconstruction of past weather events
Climatological studies, risk analysis for potential significant events
Meteorological and hydrological data searches
Forecasting for special events and specific needs
Experience in operational coastal, marine and tropical meteorology
Severe weather planning, preparedness, storm surveys

IMPORTANCE OF THE CCM CERTIFICATION

Obtaining my CCM certification allowed me to fulfill a career-long desire to become actively involved in meteorological consulting. After retiring from a 30-year career in government service, all in the National Weather Service, I realized that this possibility could finally become a reality, and would give me the opportunity to stay active in my chosen profession. The CCM designation attests to peers, clients and others that the professional they hire will bring high standards of competence, knowledge, character, professionalism and experience. It was very challenging and satisfying to achieve this recognition, which represents one of my most significant professional accomplishments

AFFILIATIONS

American Meteorological Society
National Council of Industrial Meteorologists
National Weather Association

EDUCATION

B.S., Physics, University of Florida
Graduate Studies, Physics, U. of Florida under Ford Foundation Fellowship
Graduate Studies, Dynamic Meteorology, Florida State University
Summer Colloquium on Synoptic Meteorology, NCAR, Boulder, CO

GEOGRAPHICAL LOCATION

South Carolina, but provide nationwide services

Steven A. Root

President & CEO
Certified Consulting Meteorologist #321
(CCM since July 1982)

34-years of experience in finding solutions to tough Environmental Problems



WeatherBank, Inc.

Email: Sroot@weatherbank.com
Telephone: 405-359-0773

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Custom Weather Forecasting
Long Range Weather Forecasting
Applied Meteorology
Historical Weather Database
Custom Weather and Air Monitoring Networks
Custom Meteorological Databases
Custom Meteorological Programming
Real-time, Electronic Data transfer (http, XML, FTP, etc.)

IMPORTANCE OF THE CCM CERTIFICATION

- Identifies a qualified consultant
- Identifies an ethical service provider
- Identifies an individual who maintains a high-level of technical expertise as tested and review by his peers

AFFILIATIONS

Commercial Weather Services Association, President
American Meteorological Society
National Weather Association

EDUCATION

M.S., Meteorology, 1980, University of Utah, Salt Lake City, Utah
B.S., Meteorology, 1976, University of Utah, Salt Lake City, Utah
A.A. Shasta Community College, Redding, CA

GEOGRAPHICAL LOCATION

Edmond, Oklahoma

Vincent Scheetz- Certified Consulting Meteorologist #547

AECOM

Air Quality Department Manager
Fort Collins, Colorado



EDUCATION
MS., University of Southern California, Systems Management
BS., Regis University, Mathematics
USAF Weather Officer, San Jose State University, Meteorology
Colorado State University, Atmospheric Science

SPECIALTIES
Project Management
Ambient Air Quality
Meteorological Monitoring
Dispersion Modeling

EXPERIENCE
AECOM (ENSR)
Private Consultant
Program Manager
Colorado State University
Aviation Forecaster, USAF

IMPORTANCE OF THE CCM CERTIFICATION

The CCM certification has given me a greater level of recognition and respect among my peers inside AECOM as well as the credentials to deal effectively with clients, agencies, and others as a private sector meteorologist. The CCM community has challenged me to give back some of my time and talents, and to mentor and encourage others to attain a high level of professionalism in their work careers.

AFFILIATIONS
American Meteorological Society
Board of Certified Consulting Meteorologists
Air and Waste Management Association

STATEMENT OF CAPABILITIES AND INTEREST
Ambient Air Quality Monitoring
Meteorology
Regulatory Air Quality and Meteorology Modeling
Weather Modification Research

CONTACT INFORMATION
E-mail: vince.scheetz@aecom.com
Phone: 1-970-493-8878

GEOGRAPHICAL LOCATION
Fort Collins, Colorado, USA

Jeffrey A. Secrest - CCM #407

EXPERIENCE
Air dispersion modeling consultant to industry, law and government since 1979.



THE AIR GROUP

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES
- Air dispersion modeling on industrial projects, litigation and regulatory methods development.
- Radiative transfer for solar energy and remote sensing projects for NSA and DOD.
- Air modeling methodologies for EPA human and ecological risk assessments.

Over my 27-year consulting career, my affiliation with the AMS, and designation as a CCM, have provided a transfer of understanding to clients and the public of the profession of meteorology beyond the forecast.

AFFILIATIONS
- American Meteorological Society

EDUCATION
- MBA, Southern Methodist University, 1989
- MS-Biometeorology, Utah State University, 1979
- BS-Meteorology, Texas A&M University, 1977

CONTACT INFORMATION
The Air Group
79 Trout Bend
Victor ID 83455
secrest@theairgroup.net

Office: Greater Tetons- Idaho
Clients: Nationwide

Dian J. Seidel
Certified Consulting Meteorologist #649



EXPERIENCE
National Oceanic and Atmospheric Administration – Research Meteorologist
Service on numerous national and international committees

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES
Climate variability and change research
Scientific assessments
Reference upper-air observations
Climate data quality
Educational outreach

CONTACT INFORMATION
National Oceanic and Atmospheric Administration
Air Resources Laboratory (R/ARL)
1315 East West Highway
Silver Spring, MD 20910
Phone: (301) 713-0295 ext. 126
Fax: (301) 713-0119
Email: dian.seidel@noaa.gov

AFFILIATIONS
American Meteorological Society, Fellow
American Geophysical Union

EDUCATION
University of Maryland, College Park, Ph.D., Meteorology 1992
Von Kármán Institute for Fluid Dynamics, Belgium, Diploma, 1985
San Jose State University, M.S., Meteorology, 1984
University of California, Berkeley, B.A, 1981

GEOGRAPHICAL LOCATION
Washington, DC metro area

IMPORTANCE OF THE CCM CERTIFICATION
The CCM recognizes professional ethics and character, scientific and technical education, specialized areas of expertise, and ongoing professional development. It is the only such recognition formally available to all practicing meteorologists and so serves as a touchstone for our profession, even those working outside the traditional consulting arena. More importantly, those who rely on our products and services can do so with confidence that our work reflects the highest professional standards.

Keith L. Seitter - Certified Consulting Meteorologist #630

EXPERIENCE

Current Position:
American Meteorological Society — Executive Director

Past Position:
University of Massachusetts at Lowell — Assoc. Professor of Meteorology



CONTACT INFORMATION

E-mail: kseitter@ametsoc.org
Phone: 617-227-2426 ext 220

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Mesoscale Meteorology
Numerical Weather Prediction

AFFILIATIONS

- American Meteorological Society (AMS)
- National Council of Industrial Meteorologists (NCIM)
- National Weather Association (NWA)
- American Geophysical Union (AGU)
- The Royal Meteorological Society (RMetS)
- The Oceanography Society (TOS)
- American Association for the Advancement of Science (AAAS)
- Sigma Xi, The Scientific Research Society

IMPORTANCE OF THE CCM CERTIFICATION

Given the demands of my current position as Executive Director of the American Meteorological Society, I do almost no paid consulting, but I place great importance on my having the CCM. The application and exam process was a very valuable experience for me. I learned a great deal going through the process and it made me a better meteorologist. As the chief staff office of the AMS, responsible for ensuring the integrity of the Society's certification programs, I feel it is important to have successfully completed the most appropriate certification for me, and I am very proud to have done so. I also recognize that I may find more direct application of my CCM status at some future time as my career evolves, and I appreciate the emphasis on continuing professional development in the CCM program that encourages me to maintain my currency in the field.

EDUCATION

Ph.D. Geophysical Sciences, University of Chicago
B.S. Meteorology, The Pennsylvania State University

GEOGRAPHICAL LOCATION

Boston, MA, USA

Richard A. Shema - CCM #694

weatherguy.com



Capabilities, Interest & Specialties

Marine Meteorology
Forensic Meteorology
Expert Witness Testimony
Applied Meteorology and Climatology
Synoptic & Mesoscale Predictions
Optimum Ship Routing-Marine Transportation

Experience

WeatherGuy.com, LLP – President
U.S. Navy Oceanographer & Meteorologist
Board of Certified Consulting Meteorologists

Contact Information

rick@weatherguy.com
Mobile: +1-808-291-9949
Toll Free: +1-886-882-9949
Fax: +1-808-443-0889
www.weatherguy.com

Geographical Location

Located in Hawaii, USA
Servicing Clients Worldwide

Education

M.S., Meteorology and Physical Oceanography, Naval Post Graduate School, Monterey, CA
B.S., Marine Science/Biology, Pennsylvania State University

John Shewchuk - Certified Consulting Meteorologist #516



EXPERIENCE

Owner, Environmental Research Services, LLC
Creator of the RAOB software program
Lt Col, USAF, Retired
Served 22 years in the Air Weather Service

RAOB

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Rawinsonde data analysis and display applications
Celestial data analysis and display applications
Synoptic and aviation meteorology

CONTACT INFORMATION

E-mail: wxx@raob.com
Web: www.raob.com
Phone: 570-491-4689

AFFILIATIONS

- American Meteorological Society
- National Weather Association
- Sigma Xi, The Scientific Research Society
- NWS Coop Observer, Station #36-5470
- ARES Skywarn/Amateur Radio: KB3UME

IMPORTANCE OF THE CCM CERTIFICATION

The CCM program's standard of ethics and professional development have carried over into my 20-year effort at developing the RAOB program into the world's most accurate and most versatile program of its kind. From the beginning, the same three basic rules of development are at the foundation of its success…

1. Accuracy. Always use the most accurate algorithms for data calculations.
2. Reliability. Use the most widely accepted methods for calculations & displays.
3. Usability. Keep the user-interface and displays simple. Minimize changes,

Like the CCM program, the RAOB program strives to maintain the highest level of professional excellence while maintaining the public's trust with a reliable product.

EDUCATION

M.S., Meteorology, Naval Postgraduate School, Monterey, CA. 1977
B.S., Meteorology, Pennsylvania State Univ., State College, PA. 1972

GEOGRAPHICAL LOCATION

Matamoras, Pennsylvania

Eugene S. Takle - Certified Consulting Meteorologist #359



EXPERIENCE

Iowa State University
- Director, Climate Science Initiative
- Professor of Atmospheric Science
- Professor of Agricultural Meteorology
- Professor of Aerospace Engineering

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Science of climate change
Impacts of climate change
Roadway weather
Agricultural meteorology
Wind energy forecasting
Wind energy environmental assessment

AFFILIATIONS

American Meteorological Society
- Commissioner for Education and Human Resources

American Geophysical Union
American Association for the Advancement of Science

CONTACT INFORMATION

Email: gstakle@iastate.edu
Voice: 515-294-9871

IMPORTANCE OF THE CCM CERTIFICATION

Having a CCM in an academic setting has enabled me to relate to students interested in careers in the private as well as public sector. Practical applications of meteorology and climate science to litigation, policy development, and management strategies provides learning dimensions beyond textbooks. Certification program provides a context for acquainting students with ethical dimensions of working in the public and private sectors.

I have worked on a variety of projects:
- Reconstructing meteorological conditions surrounding roadway accidents
- Climate change impact on natural gas send-out and ratemaking
- Weather-related personal injury
- Weather-related agricultural damages
- Weather-related structural damages
- Advice to state government agencies on impacts of climate change
- Wind speed forecasting research
- Regional climate modeling

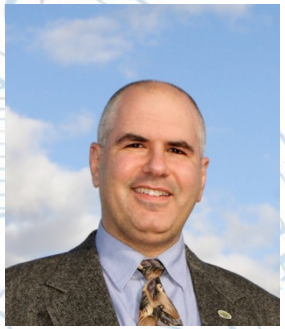
GEOGRAPHICAL LOCATION

Ames, Iowa

Vincent Tino - Certified Consulting Meteorologist #613

EXPERIENCE

Epsilon Associates – Senior Consultant
Camp Dresser & McKee – Senior Air Quality Scientist
Earth Tech – Air Quality Scientist
Sigma Research Corporation - Air Quality Scientist



STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Over 20 years experience in:

- General Air Quality Consulting
- Dispersion & Deposition Modeling
- Aircraft/Airport Air Quality
- Odor Impact Analyses
- Air Permitting
- Model Development

CONTACT INFORMATION

Epsilon Associates
3 Clock Tower Place, Suite 250
Maynard, MA 01754
E-mail: vtino@epsilonassociates.com
Phone: 1-978-897-7100 (main)
Phone: 1-978-461-6233 (direct)

AFFILIATIONS

- American Meteorological Society
- Air & Waste Management Association
- Environmental Business Council of New England
- FAA AEDT Design Group Member

IMPORTANCE OF THE CCM CERTIFICATION

The CCM certification provides an increased level of credibility and respectability to the work I perform as an air quality consultant. It provides my clients with the assurance that my character, ethics, and technical capabilities are up to a high standard of excellence which is required for their important projects.

The CCM designation is considered the ultimate peer recognition for consulting and non-broadcast meteorologists. Obtaining my CCM certification has provided me a sense of accomplishment and achievement. It allows me to market myself with the confidence that my peers have found me competent, ethical, and experienced to provide a superior quality effort to the projects I am assigned.

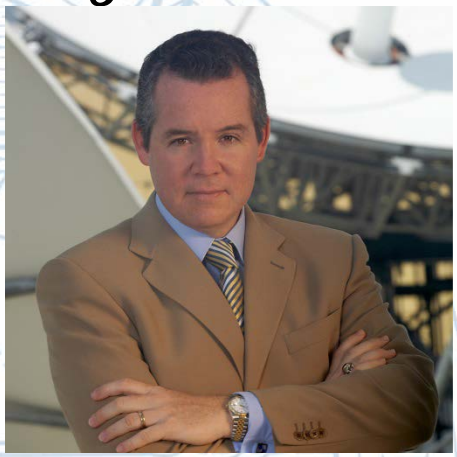
EDUCATION

M.S., Meteorology, Florida State University, Tallahassee, FL
B.S., Meteorology, University of Lowell, Lowell, MA

GEOGRAPHICAL LOCATION

Maynard, Massachusetts

John Toohey-Morales
Certified Consulting Meteorologist # 582



EXPERIENCE

23 years combined operational meteorology experience with government (NWS), private (media) and academic (STU) sectors. Currently Chief Meteorologist for NBC Telemundo, president of ClimaData Corp, and associate of Climatological Consulting Corp. AMS Commissioner on Professional Affairs and NCIM past-president.

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Certified Broadcast Meteorologist (CBM) with primary responsibility of producing and anchoring weather segments for a top ranked station in Miami. Entrepreneurial involvement in marketing to Spanish language media and specialized forecasts. Forensic meteorology work as expert witness in litigation involving weather factors. Tropical cyclone and low latitude meteorology a specialty.

CONTACT INFORMATION

(305) 661-9144
morales@climadata.com
John.Morales@NBC.com

AFFILIATIONS

- NCIM
- American Meteorological Society
- National Weather Association
- International Association of Broadcast Met.
- National Association of Hispanic Journalists

IMPORTANCE OF THE CCM CERTIFICATION

While the CCM designation was required for me to begin work in forensic meteorology and as an expert witness, it has become much more than just a certificate. Few things in a professional career are more valuable that the admiration and respect of your peers. Being a CCM means that my knowledge, experience and character hold up to my colleagues' highest standards, and those of the Society which represents us. Having also attained the CBM, I am proud to belong to a very exclusive club of meteorologists holding both the CCM and CBM designations.

EDUCATION

BS Atmospheric Sciences, Cornell University, Ithaca NY
Graduate level courses, University of Miami, Coral Gables FL

GEOGRAPHICAL LOCATION

Miami, Florida

William W. Vaughan - Certified Consulting Meteorologist #80



EXPERIENCE

Air Weather Service—Staff Weather Officer
Air Force Armament Center—Research Meteorologist
Army Ballistic Missile Agency—Research Meteorologist
NASA Marshall Space Flight Center—Chief, Aerospace Environment Division
And Atmospheric Science Division
Univ of Alabama In Huntsville—Director, Research Institute, Research Professor
Consultant, Standards And Terrestrial Environment Definition/Requirements and Interpretation

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Aerospace Environments
Applied Meteorology/Climatology
Assessment of Meteorological Events/Impacts
Training and Education
Mesoscale Meteorology
Interpretation of Terrestrial and Space Environments for Engineering Applications

CONTACT INFORMATION

E-mail <vaughan@nsstc.uah.edu>
Tel. 1 256-961-7759

AFFILIATIONS

- American Meteorological Society, Fellow
- American Geophysical Union
- American Association for the Advancement of Science
- Sigma Xi, The Scientific Research Society
- American Institute of Aeronautics and Astronautics, Fellow

Standards Engineering Society
International Standards Organization

IMPORTANCE OF THE CCM CERTIFICATE

CCM Certification provides evidence of recognition by peers of one's talents in meteorology, ethics, and dedication to maintaining the high standards of the profession. It provides visibility to those seeking the services of someone who has been professionally recognized, thus providing the opportunity to assist others concerned with meteorological issues.

While engaged in the definition and interpretation of aerospace (terrestrial and space) environments as requirements for the design, development, test, and operation of Army rockets and NASA space vehicles and spacecraft, the CCM credential enhanced the respect of Program management and design engineers. Upon retirement from government service, the CCM was instrumental in obtaining consultant assignments, both with engineering groups and those in the legal profession

EDUCATION

Ph.D., Engineering Science, University of Tennessee, Knoxville, TN
Graduate Certificate, Meteorology, AFIT, Florida State University, Tallahassee, FL
B.S., Mathematics/Physical Science, University of Florida, Gainesville, FL

GEOGRAPHICAL LOCATION

Alabama, USA

Dick Westergard – Certified Consulting Meteorologist # 632

Shade Tree Meteorology, LLC

Experience

Shade Tree Meteorology – President and CCM

NWS Albany – Warning Coordination Meteorologist

NWS Duluth – Meteorologist In Charge

Various NWS offices – Official In Charge & Weather Technician

USAF – Chief Observer & Weather Observer



Contact Information

URL: http://www.shadetreemeteorology.com

Tel 518-441-1034 Fax 518-374-7743

Professional Interests & Capabilities

Severe Weather Planning & Radar Interpretation

Detailed point forecasts for outdoor businesses

Science teacher seminars & mentoring

Affiliations

American Meteorological Society

National Weather Association

National Council of Industrial Meteorologists

Importance of CCM Rating

The CCM rating was a way for me to demonstrate to clients & private sector colleagues that my extensive experience and operational knowledge are relevant outside the government Weather Service arena. It has made clients more comfortable with trying out my services, and once they do they are usually delighted with what I can do for them.

Also, since my involvement with the CCM program began, I have become convinced that all NWS lead forecasters should be encouraged to seek this recognition. It would create a common bond and mutual respect between meteorologists in the private and public sectors, and make both more aware of the common knowledge set which they necessarily share.

Education

COMET funded research on communicating weather information – University at Albany, SUNY

Graduate Studies – University of Minnesota, Duluth & State University of New York

Regents B.A., Meteorology/ Computer Science, Marshall University, Huntington, WV

Undergraduate Studies in a variety of subjects at six different colleges and universities

Geographical Location

Niskayuna, NY - USA

Neil Wheeler - Certified Consulting Meteorologist #529



EXPERIENCE

Sonoma Technology, Inc. – Vice President,
Atmospheric Modeling and Information Systems
NC Supercomputing Center – Chief of Environmental Applications
California Air Resources Board – Air Quality Modeling Manager
United States Air Force – Weather Officer

STATEMENT OF CAPABILITIES, INTEREST & SPECIALTIES

Consulting Services
Air Pollution Meteorology
Modeling Analyses and Studies
Field Studies, Monitoring, Instrumentation, and Remote Sensing
Education and Training
Research and Development
Forecasting and Weather Prediction

CONTACT INFORMATION

E-mail: neil@sonomatech.com
Telephone: 707-665-9900
Facsimile: 707-665-9800
URL: http://www.sonomatech.com

AFFILIATIONS

American Meteorological Society
Air & Waste Management Association
American Association for the Advancement of Science
National Weather Association

IMPORTANCE OF THE CCM CERTIFICATION

I received my CCM Certification when I was working as a meteorologist and air quality modeler for the State of California. At that time, being a CCM was a way of receiving recognition for my knowledge and 20 years of experience in the atmospheric sciences, similar to how engineers in state service were recognized when they received their Professional Engineer (PE) certifications. In the 12 years since becoming a CCM, I have transitioned from being a government employee to being an environmental consultant in the private sector. In this new role, being a CCM has become of even greater value. CCM Certification has given me the opportunity to present myself to existing and potential clients as an atmospheric scientist with real-world experience; a dedication to continuing education, technical excellence, and community service; and high ethical standards.

GEOGRAPHICAL LOCATION

California, USA

EDUCATION

M.A., Natural Science (Physics), San Jose State University
M.A., Curriculum and Instruction, University of Northern Colorado
B.S., Meteorology, San Jose State University
B.A., Physical Science, University of California at Berkeley

STI
Sonoma Technology, Inc.

Morgan B. Yarker

Certified Consulting Meteorologist #712



morgan@yarkerconsulting.com

www.yarkerconsulting.com

Cedar Rapids, IA

CAPABILITIES, INTERESTS & SPECIALTIES

Education Consulting & Training

Qualitative & Quantitative Research Methodology

Mesoscale Atmospheric Modeling

Cloud Microphysics

Applied Meteorology

Arctic & Mid Latitudes

EXPERIENCE

- Founder & Owner- Yarker Consulting
- NSF GK12 Fellow
- Research Assistant
  - Center for Global and Regional Environmental Research
  - University of Alaska Fairbanks
  - University of Northern Iowa
- Instructor
  - Kirkwood Community College
  - University of Iowa College of Education

EDUCATION

Ph.D., University of Iowa
M.S., University of Alaska Fairbanks
B.S., Iowa State University

AFFILIATIONS

American Meteorology Association
Association of Certified Meteorologists
American Geophysical Union
WRN Ambassador
National Science Teacher Association
National Association for Research in Science Teaching

YARKER CONSULTING

ATMOSPHERIC SCIENCE & EDUCATION

Slide show assembled by G. Mulvey
Special thanks to Kelly Savoie of the AMS
Photographs from Click Art: Christian Graphics Delux