



Board of Directors Application

Name Rachel Burton
Mailing Address POB 1216 Pittsboro NC 27312
Home Address (if different) 55 Thomas Lane Monroeville NC 27557
Home Phone N/A Work Phone _____
Cell Phone 919-444-3495 Email Address wburton@blast.com
Township of Residence Haw River

Are you currently serving on a board or committee in Chatham County? Yes ☐ No ☒

If yes, please list all boards and committees on which you currently serve: CCCC Biofuels Advisory
Previous: Abundance Foundation, CFSA, Town of Pittsboro -
Grants Committee, Piedmont Biofuels Cooperative

Please list your educational background. Include names of schools and degrees held.

BA Liberal Arts / UNC, AA - Automotive Technology / Certificate
in Sustainable Agriculture, Coursework in Nutrition Science, Renewable Energy
Name of Employer self (Microbial Energy & Chatham Wireless)
Address of Employer above
Position President/Founder

Please list the names of the civic organizations in which you currently hold membership:

American Oil Chemists Society, American Standards & Testing Materials
Society of Automotive Engineers, CFSA

Explain how your education, knowledge and experience will be an asset to the EDC.

I believe I have a unique skillset in renewable fuels, transportation,
and small business experience that could be valuable to
EDC. I am an alumni of both UNC-Chapel Hill and CCCC
in Pittsboro and Sanford. There is great value in two year
and four year education experiences and how these educational

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experiences
are
leveraged into meaningful employment for our citizens.
I would like to participate in strengthening both the vocational
and professional sectors in our county.

Describe your vision for economic development in Chatham County.

I believe that Chatham County can be a model for the entire state of North Carolina in how we can revive sectors of manufacturing within the renaissance of home-grown businesses like food trucks and small farms. I would like to see Chatham step forward with new technologies in the biotech economy.

Is there a particular aspect of economic development that interests you? Explain how you would like to be involved.

I would like to be involved in any of all sectors that involve entrepreneurship, manufacturing, information technology, and energy production/distribution.

Demographic information (OPTIONAL)

We ask your help in assuring the diversity of membership on our boards and committees. This section is optional, and you may leave it blank.

Gender: ☐ Male ☒ Female

Date of Birth 7-27-74

Ethnic Background

☒ White, non-Hispanic ☐ African-American ☐ Hispanic

☐ Asian or Pacific Islander ☐ Native American ☐ Other, Specify: _____

Please send completed application to:

Chatham Economic Development Corporation

Attn: Dianne Reid

PO Box 1627, Pittsboro, NC 27312

919-542-8274 p 919-542-4716 f

dreid@chathamcdc.org

www.chathamcdc.org

Rachel Marie Burton

55 Thomas Lane
Moncure, NC 27559

919.444.3495
rachel@blast.com

Education

- Council for Entrepreneurial Development, FastTrac® business graduate, comprehensive business planning program for start-up entrepreneurs, 2011.
- National Renewable Energy Laboratory, Sustainable Energy and Education Training, Graduate course, Colorado School of Mines, Golden, Colorado, 2007.
- Associate Degree in Applied Science; Automotive Systems Technology, Central Carolina Community College (CCCC), 2000; Dennis Wicker Vocational Honors Scholar
- REAL Farm Business Administration Certificate, CCCC, 1997
- Bachelor Arts & Sciences, University of North Carolina at Chapel Hill, AB/Nutrition Science, 1996
- Biodiesel Production Technology, Analytics and Biodiesel Business Development, Iowa State University, 2003

Piedmont Biofuels, Director, Research & Business Development (2008 – Present)

- Co-PI, Senior personnel on current DOE SBIR Phase I & II for enzymatic biodiesel research
- Founded research division to evaluate new biodiesel processes and technologies
- International and national consultant and speaker on biodiesel quality and performance
- Developed a patent-pending process for enzymatic esterification of biodiesel.
- Authored & administered over 10 state and federal grants (USDA, DOE, Dept. of Commerce) equaling over \$2 million

Piedmont Biofuels, Laboratory and Quality Control Manager (2005 –2008)

- Manage all aspects of quality assurance activities
- Responsible for all government compliance activity and permitting requirements.
- Oversee design and implementation of laboratory facilities
- Implemented the quality management system and BQ-9000 accreditation

National Biodiesel Board, Diesel Technician Trainer, Sustainability Taskforce, Technical Committee (2008 – Present)

- Developed and delivered diesel technician training curriculum program for NBB, nationwide
- Implemented ASE certification for diesel technician training curriculum program
- Founding and active committee member for Sustainability Taskforce
- Developed industry sustainability principles and producer guidance
- Conference organizer for the 2007 and 2008 Sustainable Biodiesel Summit

Central Carolina Community College, Pittsboro and Sanford, NC 2001- 2006

- Biofuels program founder and coordinator, and introduced biofuels curriculum within the sustainable agriculture program.
- Established seven new continuing education and curriculum courses.

- Delivered State Energy Office Clean Technology Biodiesel demonstration program
- Organized two national biofuels conference and various workshops.
- Huskins Automotive program director 2001-2005
- Instructor for Automotive and Diesel technology, brakes, electrical systems, and emission controls.

Honors/Certification

- National Biodiesel Researcher of the Year. National Biodiesel Board. November 2011.
- Distinguished Alumni Award, Central Carolina Community College, 2012.
- NC Mobile CARE Fuel & Technology Provider award, 2010
- Graduate, Society of Automotive Engineers, Diesel Engine Seminar, 2009
- AOCS, American Oil Chemists' Society: Edible Oil Processing Certification, 2007
- National Biodiesel Accreditation Commission, BQ9000 implementation, 2007,2008
- Magellan Midstream Biodiesel Quality Certification, 2006
- Certification in Photovoltaic Technology, Solar Energy International, 2005
- National Alternative Fuels Training Consortium, Beta Test Course, 2004
- Certification in Alternative Fuels, Solar Energy International, 2004

Seminars and Lectures

- Multi-Feedstock Biodiesel Production with enzyme catalysts. National Biodiesel Conference. Orlando, FL. February 2012.
- Lipase Esterification for Biodiesel Production. EuroFedLipid meeting in Rotterdam, Netherlands. September 19, 2011
- Enzymatic Biodiesel Production, American Oil Chemists Society (AOCS) Annual Meeting, May. 2, 2011. Cincinnati, OH
- Biodiesel Production Intensive – 3-day Coordinator and Instructor. Piedmont Biofuels. Pittsboro, NC. March 2-4, 2011.
- Enzymatic Biodiesel Production, National Biodiesel Conference, Feb. 7, 2011. Phoenix, AZ.
- High voltage current for continuous glycerin separation from biodiesel. American Oil Chemists Society (AOCS) Biodiesel Congress Meeting, November. 2010. Munich, Germany
- Sustainable Biodiesel Production Techniques, American Oil Chemists Society (AOCS) Annual Meeting, May. 2009. Orlando, FL
- Sustainable Biodiesel Production, American Oil Chemists Society (AOCS) Annual Meeting, May. 2008. Seattle, WA.
- In-depth Biodiesel Production, Use and Plant Design Workshop – 5-day Intensive Workshop.

Coordinator and Lead Instructor. Solar Energy International. Pittsboro, NC. October 1-5, 2007.

- Biodiesel Production and Fuel Quality Lecture Series. Sponsored by the National Biodiesel Foundation through the Triangle Clean Cities Coalition, Goldsboro, Gaston, and Pittsboro, NC Fall 2007
- Basics of Biodiesel Production and Fuel Quality for Agricultural Producers – 1-day course. Sponsored by the National Center for Appropriate Technology. North Carolina State University, Raleigh, NC. March 2006.
- In-depth Biodiesel Production, Use and Plant Design Workshop – 5-day Intensive Workshop. Coordinator and Lead Instructor. Solar Energy International. June 2005, May 2006, Oct. 2006.

Publications

Xiaohu Fan, Rachel Burton, Greg Austic. "Enzymatic Conversion of Brown Grease to Biodiesel in a Solvent-free Medium". Energy Sources. Part A: Recovery, Utilization, and Environmental Effects. 2010.

R. Burton. Market Analysis of Glycerol Carbonate for the Biofuels Center of North Carolina. March 2010.

Xiaohu Fan, Rachel Burton and Greg Austic. "Conversion of degummed soybean oil to biodiesel-optimization of degumming methods and evaluation of fuel properties". International Journal of Green Energy, 7: 593-599, 2010.

Rachel Burton, Xiaohu Fan and Greg Austic. "Evaluation of Two-step Reaction and Enzyme Catalysis Approaches for Biodiesel Production from Spent Coffee Grounds". International Journal of Green Energy, 7: 530-536, 2010.

Xiaohu Fan, Rachel Burton and Greg Austic. "Preparation and Characterization of Biodiesel Produced from Fish Oil". Chemistry and Technology of Fuels and Oils, 46(5): 287-293, 2010.

Xiaohu Fan, Rachel Burton and Yongchang Zhou. "Glycerol (Byproduct of Biodiesel Production) as a Source for Fuels and Chemicals-Mini Review". The Open Fuels & Energy Science Journal, 3: 17-22, 2010.

Xiaohu Fan, Rachel Burton and Greg Austic. "Preparation and Characterization of Biodiesel Produced from Recycled Canola Oil". The Open Fuels & Energy Science Journal, 2: 113-118, 2009.

Xiaohu Fan and Rachel Burton. "Recent Development of Biodiesel Feedstocks and the Applications of Glycerol: A Review". The Open Fuels & Energy Science Journal, 2:100-109, 2009.

Marc ter Horst, Stephanie Urbia, Rachel Burton, and Christina MacMillan Using proton nuclear magnetic resonance as a rapid response research tool for methyl ester characterization in biodiesel. Lipid Technology February 2009. Vol. 21, No. 2

Real World Experiences from a Small Biodiesel Production Facility. Inform Magazine. September 2007



Board of Directors Application

Name Chris Ehrentfeld
Mailing Address 50201 Governors Drive Chapel Hill, NC 27517
Home Address (if different) 1044 Philpott Drive, Chapel Hill, NC 27517
Home Phone 919-285-1005 Work Phone 919-285-1005
Cell Phone 919-260-1005 Email Address chris@domesticnc.com
Township of Residence Williams

Are you currently serving on a board or committee in Chatham County? ☒ Yes ☐ No

If yes, please list all boards and committees on which you currently serve:

Chatham Education Foundation

Please list your educational background. Include names of schools and degrees held.

BSBA (Business Administration) from UNC - Chapel Hill

Name of Employer Domestic Realty / Build Ex / Governors Club Realty ^{Beas & Beas}
Address of Employer 50201 Governors Drive, Chapel Hill, NC 27517
Position Owner

Please list the names of the civic organizations in which you currently hold membership:

Chapel Hill Chamber of Commerce, Greater Chapel Hill Association of Realtors

Explain how your education, knowledge and experience will be an asset to the EDC.

I have lived & worked in Chatham County for 14 years
All of my business is based in Chatham County

Describe your vision for economic development in Chatham County.

I would like to see more employers in Chatham County &
more retailers in Chatham County. Currently, too many of
our residents drive out of the county to go to work
and to spend their retail dollars.

Is there a particular aspect of economic development that interests you? Explain how you would like to be involved.

I would like to be involved in any project that helps
attract new residents & new businesses to our county (the
two go hand in hand).

Demographic information (OPTIONAL)

We ask your help in assuring the diversity of membership on our boards and committees. This section is optional, and you may leave it blank.

Gender: ☒ Male ☐ Female

Date of Birth 4/20/76

Ethnic Background

☒ White, non-Hispanic ☐ African-American ☐ Hispanic
☐ Asian or Pacific Islander ☐ Native American ☐ Other, Specify: _____

Please send completed application to:

Chatham Economic Development Corporation
Attn: Dianne Reid
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dreid@chathamcdc.org
www.chathamcdc.org

CHATHAM EDC

ECONOMIC DEVELOPMENT
CORPORATION

Board of Directors Application

Name Robert A. Enders, Jr.
Mailing Address 48 Wickham Dr. Pittsboro, NC 27312
Home Address (if different) _____
Home Phone — Work Phone (919) 799-4001
Cell Phone (336) 552-6263 Email Address renders@chathamhospital.org
Township of Residence _____

Are you currently serving on a board or committee in Chatham County? ☒ Yes ☐ No

If yes, please list all boards and committees on which you currently serve:

United Way of Chatham County

Please list your educational background. Include names of schools and degrees held.

University of Virginia - B.A. Biology

Virginia Commonwealth University - Masters of Healthcare Administration

Name of Employer Chatham Hospital (UNC Health Care System)

Address of Employer 475 Progress Blvd. Siler City NC 27344

Position President

Please list the names of the civic organizations in which you currently hold membership:

Rotary Club of Siler City

Explain how your education, knowledge and experience will be an asset to the EDC.

I have a master's degree in healthcare administration with
30 years experience in the healthcare field. I have been active
in community affairs during my working career. I was a board
member of the Rockingham County EDC. I have experience in recruiting
physicians to rural communities.

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naturally innovative

Describe your vision for economic development in Chatham County.

Rural communities must be pro-active and aggressive to recruit
industries. They must be as prepared as economically possible to
provide support and assistance to new industries. Existing industry support
and retention is also very important.

Is there a particular aspect of economic development that interests you? Explain how you would like to be involved.

I am interested in all aspects and would be willing to serve
where needed.

Demographic Information (OPTIONAL)

We ask your help in assuring the diversity of membership on our boards and committees. This section is optional, and you may leave it blank.

Gender: ☒ Male ☐ Female

Date of Birth 1/31/1956

Ethnic Background

☒ White, non-Hispanic ☐ African-American ☐ Hispanic

☐ Asian or Pacific Islander ☐ Native American ☐ Other, Specify: _____

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CHATHAM EDC

ECONOMIC DEVELOPMENT

Board of Directors Application

Name Joel Emmons
 Mailing Address 114 AUTUMN CHASE PITTSBORO, NC 27312
 Home Address (if different) (Same)
 Home Phone 919-533-6158 Work Phone 603-333-2953
 Cell Phone 603-333-2953 Email Address Joel.Emmons@ATT.NET
 Township of Residence PITTSBORO

Are you currently serving on a board or committee in Chatham County? Yes ☐ No ☒
 If yes, please list all boards and committees on which you currently serve:

Please list your educational background. Include names of schools and degrees held.

MBA - BABSON COLLEGE A.S. ACCOUNTING - BENTLEY UNIVERSITY
BS COMPUTER SYSTEMS - BENTLEY UNIVERSITY

Name of Employer EMC CORPORATION
 Address of Employer 42 SAUND ST. BURLINGTON MA 01748
 Position DIRECTOR, SOLUTIONS MARKETING

Please list the names of the civic organizations in which you currently hold membership:

Explain how your education, knowledge and experience will be an asset to the EDC.

MY BACKGROUND SPANS WORKING IN A STARTUP JOINTLY OWNED COMPANY FOR 5 YEARS
BE WORKING IN FIVE COMPANIES FOR 38 YEARS. MY KNOWLEDGE SPANS MULTIPLE
BUSINESS DISCIPLINES (MARKETING, CONSULTING, BUSINESS DEVELOPMENT, IT MANAGEMENT,
WEB DESIGN AND DEVELOPMENT, PROJECT MANAGEMENT.) IN HIGH TECH SEE ATTACHED B.I.

My background spans working in a startup company for 5 years to working in EDC companies for 38 years. My knowledge spans multiple business disciplines (marketing, consulting, business development, IT management)

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for 5 years to working in EDC companies for 38 years. My knowledge spans multiple business disciplines (marketing, consulting, business development, IT management)

Describe your vision for economic development in Chatham County.

WE SHOULD TO CONTRIBUTE 4 1/2 YEARS AGO FROM NOT AND LOW THE AREA I WANT VISIT
MUCH TO SEE CHATHAM COUNTY GROW ECONOMICALLY AND SOCIAL TO A THREATEN
COMMUNITY ENGAGED WITH WORKING BUSINESS PART ISSUES AND BUSINESS FIRST
I SEE GREAT POTENTIAL FOR CHATHAM COUNTY AS THE GO GOVT COMES TO EXPAND

Is there a particular aspect of economic development that interests you? Explain how you would like to be involved.

THE GREAT INTERESTED IN THE EXPANSION OF PITTSBORO RTJ TO INCLUDE THE
PROPOSED "RTJ2" BASED ON MY ISSUE BACKGROUND. I AM ALSO INTERESTED IN
CONNECTING EDUCATIONAL PROGRAMS TO EMPLOYMENT AND PROVIDING ENLARGED PROGRAMS
BASED ON QUALIFIED NEEDS AND PROVIDING EDUCATION.

Demographic information (OPTIONAL)

We ask your help in assuring the diversity of membership on our boards and committees. This section is optional, and you may leave it blank.

Gender: ☒ Male ☐ Female

Date of Birth 11/12/53

Ethnic Background

☒ White, non-Hispanic ☐ African-American ☐ Hispanic

☐ Asian or Pacific Islander ☐ Native American ☐ Other, Specify: _____

Please send completed application to:

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Doug Emmons, Director, Solutions Marketing & SAP Global Solutions, EMC Corporation



Mr. Emmons has over thirty years experience with IT consulting, IT management, business applications software development, software product management, alliance and channel management, and solutions marketing. He has been working with SAP for the past 13 years. As global solutions practice lead, Mr. Emmons helps direct EMC's SAP solutions strategy, and oversees worldwide field and partner enablement programs and strategic sales support.

Prior to EMC, Mr. Emmons served as Director, Partner Programs at Compaq Computer where he established Compaq's Global Consultants and System Integrators program for SAP enterprise solution sales. Prior to Compaq, he held senior positions in business development, product management, and IT management at Digital Equipment. Mr. Emmons started his career working at a start-up software company for five years where he designed, developed, and product managed financial applications software. Mr. Emmons has completed graduate work towards a MSIT degree from Bentley University and holds a MBA from Babson College, and both a B.S. in Computer Systems and an A.S. in Accounting from Bentley University in Massachusetts.