Mark R. McLellan
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Summary of Qualifications:

- *Over 30 years of experience* across four university systems, including professorial promotion and tenure (Cornell University), 4 years as department chair (Cornell University), 6 years as director of a university multi-college research center (Texas A&M University), 6 years as dean for research/experiment station director (University of Florida) and over 5 years as Vice President for Research and Dean of the School of Graduate Studies (Utah State University).
- *Varied & extensive skill set* in academic program leadership, effective organization of highly talented scientific personnel, outreach & communications, problem solving and program development.
- *A history of accomplishment & success* in program achievement and development inside a number of different organizational structures including a very large scientific society (28,000 members), and four research-centric universities. A leader of change through collaboration, vision and creativity.
- *A strong personal work ethic* - highly motivated, achievement oriented with commitment to a science-based, high quality education of students and new scientists, a commitment to delivery of effective solutions to clientele, and the discovery of new knowledge.
- *A commitment to diversity and inclusiveness* – by seeking diverse leaders among the faculty and staff with varied backgrounds, training and experiences so that discussions are explorative, thorough and lead to solid decision-making. I am committed to learning from my own mistakes and learning from others while improving my own skills.

Summary of Academic Accomplishments:

Distinguished & accomplished scientist with 46 peer reviewed journal publications and 10 book chapters as well as 38 published abstracts from professional programs and five published software programs. Taught four courses: a university food engineering course and three different FDA training courses. Trained four PhDs students and 8 Master of Science students. With competitive grants totaling well into the millions of dollars, I have given a large number of technical presentations and have been in demand as a corporate consultant for, among others: Alcoa Inc., Dupont Inc., FMC Corp., Monsanto Inc. and P&G Corp.

In 2016, I was selected as the first inaugural chair of the USDA Science Advisory Council under the Office of the Chief Scientist, USDA. The council was new established in USDA in response to a 2012 report President's Council of Advisors on Science & Technology.

In 2014, I was appointed to the US Food & Drug Administration Science Board and have contributed to a number of land mark recommendations regarding toddler anesthesia and separately the national crisis in opiate addiction. In 2017, I will become chairman of the science board.

In 2004, I was named the JR Vickery Keynote Address Lecturer (AIFSTI, Australian Institute of Food Science and Technology 37th Annual Convention), and in the 2003, I was named the Ernest Newberry Memorial Lecturer, (SAAFosT, South African Association of Food Science and Technology). In 2002, I was awarded the Distinguished Alumni Award, DFHN, Michigan State University

In 2002, I was named by jury of peers with the distinguished title of ***Fellow of the Institute of Food Technologists***.

In 1987 I was promoted with tenure to Associate Professor and in 1996 I was promoted to Full Professor, both at Cornell University. I was previously granted tenure at Texas A&M University and the University of Florida. I am a Professor Emeritus of the University of Florida. I am currently a tenured professor in the department of Nutrition, Dietetics and Food Science, Utah State University.

Graduate Majors Committee Chair:

Majors	Year	Degree
Pier Romero	1997	M.S.
Ching-Tzu Su	1997	Ph.D.
Renan Bu-Contreras	1996	M.S.
Tsung-Ping Chiu	1995	Ph.D.
Erick Njoka	1996	M.S.
Haiso-Fang Chang	1995	M.S.
Angela Ichwan	1995	M.S.
Carla Kuesten	1992	Ph.D
Olga Padilla	1991	Ph.D
Linda Fernandes	1991	M.S.
Olga Padilla	1988	M.S.
Anna F. Hoo	1986	M.S.

Post Doctoral Mentoring

R.C. Anantheswaran	1984

Summary of Major Administrative Accomplishments —

Since joining Utah State University:

- In July of 2016, a **new Division of Technology Transfer Services** was created and moved under RGS as a renewed focus on emerging, new faculty discoveries leading to private licensing opportunities.
- Implemented programs to support faculty achieving **record levels of university-wide research growth at USU** for 3 years in a row (FY14 - FY16) as measured by new faculty awards and accomplished by implementing an integrated set of faculty support/training programs. University research funding for FY2015 will be approximately $230 million.
- Reviews **all university tenure packages** as one of only three permanent members of the university central tenure review committee reviewing typically 70 tenure packages per year.
- Constructed a multi-year case to the **Utah State Legislature** and visited with individual legislators to make the case for support of graduate training programs. This led to an initial funding in FY13 in $3M in one-time funding, then in FY14 we received $500K in permanent annual funding as well as another $500K in one-time funding. Finally in FY15 we received $1.6M in permanent recurring funding to support graduate education at USU. Total graduate funding today with this initiative: **$2.1 M in recurring funds and $3.5M in one-time funds**.

- Designed & launched Utah State's new **Office of Research and Graduate *Studies*** – a merger of two major USU functions into an optimized integrated team without expansion of staffing.
- Socialized and eventually updated four **major university policy changes** with broad faculty engagement: Time & Effort, Extra Service Compensation, Institutional Conflict of Interest and Campus Safety. These addressed compliance with the new OMB rules of December 2014 and APLU Task Force on Laboratory Safety.
- Designed and implemented the launch in 2015 of a conversion of sponsored awards records to a new **cloud-based Kuali data system**.
- Provided leadership to the **US Food and Drug (FDA) Scientific Advisory Board** by engaging leadership as measured by my roll on a series of subcommittees and engaging on national issues such as the national opiate addiction and risks associated with toddler anesthesia.
- Lead **a university-wide review of all USU graduate programs** leading to significant focus on mentoring, management, recruitment and funding.
- Serves on the **bi-monthly meetings of the University Dean's Council** for review of all academic policies and activities of the university.
- Serves on **USU Admissions Management Committee** which has oversight for setting admissions standards and targets. This committee also help managed the unusual drop and recovery of incoming students due to missionary status change that affected the size of our incoming freshmen class.
- Created a **new USU Presidential Doctoral Research Fellows** program funding 10 new four-year fully - funded fellowships every year until a steady state of 51 are funded in FY2015.
- Created and launched ***TEDxUSU*** and positioned USU as one of the newest TED host sites promoting innovative thinking and presentations – positioning USU as a center of innovative thinking. (Over 320,000 viewers since our launch)
- Provided leadership to the **USDA NAREEE Board** (USDA Policy Board reporting to the Chief Scientist of USDA) by engaging leadership as measured by my role on the Executive Committee and subcommittees including: Safety in Research Subcommittee, Open Data – Implementation of the OSTP Guidelines Subcommittee, Private versus Public funding of Ag Research Subcommittee, Review of Animal Research at USDA Facilities & Programs.
- Created a new **USU ARTS-STEM Graduate Fellowship** pilot program to stimulate unique right brain/left brain thinking in graduates and hybridizing a training experience that crosses arts and sciences/engineers.
- Launched a university-wide intensive **Grantsmanship Training Program for all faculty and for all graduate students**.
- Created a new **USU Faculty Researcher Dashboard** for up to the minute access to all sponsored awards of the university and personal access to proposals submitted and research expenditures.

While at University of Florida:

- As IFAS Dean for Research, lead the ***doubling of the research funding portfolio of UF/IFAS*** from $50 million FY04 to over $115 million by FY11.
- Developed the blueprint for, and guided the development of the ***2009 UF/IFAS Research Roadmap*** – a plan for research excellence and return on investment into the next decade and beyond spanning sixteen academic departments and twelve Research & Education Centers. The plan brought a unity of thinking to 14 academic departments and 13 different research and education centers (off campus - across the state).
- Reviewed typically ***30+ tenure packages as lead dean annually*** and was hiring authority for all new faculty with greater than 50% research appointment.

- Established the ***UF/IFAS Invitation to Negotiate Process for Germplasm Licensing*** – an innovative process that safeguards the needs of the State of Florida while putting a serious business perspective to licensing of UF/IFAS germplasm and producing significantly increased royalty funds for the plant breeding programs of IFAS, reaching approximately $4 million annually in FY2010.
- Created the ***UF/IFAS Research Innovation Fund*** for funding faculty research proposals where outside sources are unlikely including [1] high risk research, [2] preliminary data projects needed prior to national funding submission, and [3] near to commercialization projects needed to push developments closer to commercial release. Funded over $1.9 Million in competitive faculty proposals from FY2008 thru FY2010.
- Responsible for ***IFAS Sponsored Programs*** including all pre-award and post-award activities servicing 500 tenured/tenure-track faculty while doubling the annual award portfolio. After 5 years, I also oversaw the transition of centralizing IFAS Sponsored Programs to university central services.
- Established new innovative faculty training solutions to support faculty research programs including ***UF/IFAS Grantsmanship Seminar & Workshop Program*****.**
- Established an ***innovative faculty scholarship program*** for advanced statistical training in support of grant development and project data analysis.

Major Administrative Initiatives while at Texas A&M University and Cornell University:

- As Director of TAMU Institute of Food Science & Engineering (IFSE), I developed & built the ***IFSE Electron Beam Research Center*** at Texas A&M University based on a $10 Million gift in a private-public research partnership. Including the world's largest, high-throughput research/commercial level E-beam and X-ray irradiation equipment including two vertically mounted 10MeV, 15 kilowatt eBeam Varian linear accelerators and one horizontally mounted 5MeV, 18 Kilowatt X-ray Varian linear accelerator.
- Created the ***Cornell University Associates Program*** - a program of industry partnership that supports graduate training while providing a world-class forum of science discussion.

Education:

- Ph.D., Michigan State University, Food Science, 1981
- M.S., Michigan State University, Food Science, 1978
- B.S., University of Massachusetts Amherst, Food Science, 1976

Professional Employment Experience:

- Utah State University
  - July 2011 – Present – Vice President of Research
  - July 2011 – Present – Dean, School of Graduate Studies
  - July 2011 – Present – Professor, Department of Nutrition, Dietetics and Food Science
- University of Florida, Institute of Food and Agricultural Sciences (IFAS)
  - 2005-2011 - Florida Agricultural Experiment Station, Dean for Research & Director (Hiring authority and responsible for dean's tenure review of faculty with greater than 50% research appointment – more than 400 faculty with research appointments)
  - 2005-2011 - Food Science & Human Nutrition, Professor
  - 2011-present – Professor Emeritus, Food Science & Human Nutrition
- Texas A&M University, Look College of Engineering

- 2001-2005 - Food Protein Research and Development Center, Director

- Texas A&M University, College of Agriculture and Life Sciences
  - 1999-2005 –Institute of Food Science and Engineering, Director
  - 1999-2005 – Dept. of Biological and Agricultural Engineering, Professor
- Cornell University, College of Agriculture & Life Sciences
  - 1996-1999 - Institute of Food Sciences, Director & Associate Director
  - 1981-1999 - Food Science and Technology, Asst., Assoc. Full Professor, Dept. Chair

Current Government Appointments:

- FDA – Science Board to the US Food & Drug Administration
  - 2014 – present – Appointment by FDA Commissioner Dr. Margaret Hamburg and FDA Assoc. Commissioner for Special Medical Programs, Dr. Jill Hartzler
  - 2016 – present, Appointed 2017 Chairman, FDA Science Board
- USDA – National Agricultural Research Extension and Education (NAREEE) Board
  - 2012 – 2015 — Appointed to a 3 year term by USDA Secretary Vilsack
  - 2013 – Elected to NAREEE Executive Committee
  - 2015 – present — Appointed to a second 3 year term by USDA Secretary Vilsack
  - 2016 – present — Appointed Chairman of the USDA Science Advisory Council.

Past Government Appointments:

- State of Florida Pesticide Review Council – a public forum of pesticide policy review
  - 2005 to 2011 – Council Member
  - 2007 – Elected Chair, Council
- FDA Food Advisory Committee
  - 2006 — Appointed by US FDA Commissioner Andrew von Eschenbach
  - 2006 to 2008 – appointed Member & Chair
- FDA – Science Committee Subcommittee: FDA Looking Forward
  - 2013 – 2014 – Appointment by FDA Commissioner Dr. Margaret Hamburg and FDA Chief Scientist, Dr. Jesse Goodman

Philanthropy Experience:

Lead the effort to secure funding and build the new Texas A&M University Electron Beam Food Research Facility (30,000 sq ft.) valued as a $10 million gift to create a high capacity research facility in Texas for high energy electron beam and X-Ray research by scientists in academia, government, and industry. The gift was enabled by Titan Corporation, San Diego, CA.

Served on the University of Florida Foundation and the foundation's Corporate Giving Committee. Meeting with many potential donors, I am passionately committed to stewardship and relationship building as a foundation to gift giving. While at Florida, he encouraged discussions on gift giving by newly successful entrepreneurs involving expectation of milestones prior to follow on gifts.

International Leadership Experience:

<u>*Institute of Food Technologist, Chicago, IL*</u> – one of the largest scientific societies in the US.

I was President, 2002-2003, of the Institute of Food Technologists, a scientific society with 28,000 members at the time and was responsible for the management of a $17 million annual budget. As leader of this organization, I worked with professionals in food science, technology and related professions in industry, academia and government. My term as president saw the launch and implementation of a new

strategic plan and the initiation of a million-dollar program to create a personalized web source of technology and science information for IFT members.

United Nations

International Atomic Energy Agency - Vienna, Austria — I participated in multiple scientific NGO delegation visits to the United Nations and I have spoken before the UN International Atomic Energy Agency on issues of food safety and food irradiation. I represented the US food science research community in partnership meetings with the South African Association of Food Science & Technology.

Food & Agricultural Organization – Rome, Italy In 2003, I lead a scientific NGO delegation before the UN-FAO Codex Alimentarias Commission Meeting.

World Food Prize, Des Moines, IA – I am an advisor to the World Food Prize organization and formally participate in all recent WFP Laureate programs.

USDA Monetization Grant for Indonesia Food Safety Project – First ever awarded to a university.

I was a Co-PI to the 2005 funded SEAFAST Center project in Indonesia with $5 million startup funding. The Center was established as a regional resource for food entrepreneurs and startup food manufacturing companies supporting the establishment of a food manufacturing environment for Indonesians and the ASEAN region. This grant was the first monetization grant ever awarded to a university by USDA.

Additional Professional Leadership Experience:

- APLU/AAU National Task Force on Laboratory Safety
  - 2015-2016 – Co-chair
  - Report: "A Guide to Implementing a Safety Culture in Our Universities"
  - Awarded the 2016 "Campus Leader Who Cares Award", Campus Safety, Health, and Environmental Association
- The Farm Foundation – Washington, DC (www.farmfoundation.org)
  - 2008 – present – Member, Round Table Forum
- Association of Public and Land-grant Universities, BAA Policy Board of Directors
  - 2010 to 2011, Elected Member
- Southern Assoc. of Agricultural Experiment Station Directors (www.cals.ncsu.edu/saaesd)
  - 2010 – 2012 —Chairman
- Florida Citrus Research and Development Foundation, Inc. – Lake Alfred, FL
  - 2009 to 2011 - Member, Board of Directors
- National Agricultural Biotechnology Council (nabc.cals.cornell.edu)
  - 2010 – 2011 — Elected Council Chairman
- University of Florida Foundation – Gainesville, FL
  - 2008 to 2011 – Member, Board of Directors
  - 2008 to 2011 – Member, Committee on Corporate Giving
- Harvard Business School – Executive Education Program
  - 2007 – Agribusiness Seminar Program
  - 2008 – Strategic Negotiations Program
  - 2011 – Agribusiness Seminar Program
- Florida Foundation Seed Producers Incorporated – Marianna, FL

  - 2005 to 2011 - Member, Board of Directors
- Food Update Foundation – Washington, DC
  - 2003 – 2009 – Member, Board of Directors
  - 2007 – President of the Board
- Institute of Food Technologists – Chicago, IL
  - 2002 to 2003 – President
  - 1998 to 2001 – Member, Board of Directors
- National Center for Electron Beam Food Research – College Station, TX
  - 2003 to 2005 – Director

Expertise and Research Interests:

I am serving as Utah State University's Vice President for Research and Dean of the School of Graduate Studies. I design and manage the newly created Office of Research & Graduate Studies including the university's **School of Graduate Studies**, **Division of Sponsored Programs, Division of Environmental Health & Safety, Division of Human Subjects Research, Division of Laboratory Animal Research Centers, Division of Research Integrity & Compliance, Division of Graduate & Undergraduate Research, the Division of Research Development and** as of July 2016**,** the new **Division of Technology Transfer Services**. With a lean organizational structure of just over 70 employees, I am responsible for guiding the research advancement of well over 500 tenured faculty across eight colleges and 42 academic departments. During FY2015 and FY2016, the Utah State University research enterprise posted all-time high records in new awards.

As Dean of the School of Graduate Studies, I have overseen the review of all graduate programs through an extensive multiyear process aimed at improving quality. The graduate school is also in the process of reviewing automation of graduate records and processes. The school is also engaged in an extensive planning process to grow graduate programs through a series of planned actions to expand the university's capacity for graduates.

I have served as Dean of Research for the University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS) and as Director of the Florida Agricultural Experiment Station. There are thirteen major off-campus Research & Education Centers throughout the state. With total expenditures of over $300 million annually and over 400 faculty researchers, UF/IFAS was ranked by National Science Foundation as the single largest agricultural research program in the public university system of the United States. As dean, I was the hiring authority for these faculty and responsible for tenure review of typically thirty faculty packages per year.

Previously, I was Director of the Institute of Food Science and Engineering at Texas A&M University. This Institute had seven centers of expertise and involved over 170 faculty in Texas A&M and other Texas Universities, as well as Texas based USDA-ARS researchers.

I was also the Director of the Food Protein Research & Development Center which was a $2 million annual research and development arm of the Texas Engineering Experiment Station focused on the food and agricultural products areas including oil seeds and their by-products.

With secured funding in fall of 2003, I was the principal investigator for the USDA grant awarded for the National Center for Electron Beam Food Research. I lead a team effort to build and create the new Texas A&M University Electron Beam Food Research Facility. Operations included two vertically mounted 10MeV, 15 kilowatt eBeam Varian linear accelerators and one horizontally mounted 5MeV, 18 Kilowatt X-ray Varian linear accelerator. The National Center for Electron Beam Food Research figured prominently as a solution to the threat of anthrax in

the US government mail system. In 2005, I was a Co-PI to the USDA funded SEAFAST Center project in Indonesia with $5 million startup funding on a monetization grant.

I have worked and published in the area of fruit and vegetable process technologies. I specialized in juice and liquid food process systems and my experience has included process technologies including design and modeling, as well as packaging. I have also worked internationally on projects related to food processing technologies. I have published works on subjects such as packaging systems, methods in sensory analysis, membrane technologies including ultrafiltration, freezing point depression in food systems as well as many other topics. In spring of 1999, I was the PI on a multimillion dollar grant award from USDA creating the Northeast Food Venture Center at Cornell University. I have been an expert witness on a number of high profile food cases. My private consulting has commonly involved heading up or participating on technology assessment teams for private corporations and public institutions.

Until July of 1999, I served as Chairman of the Department of Food Science and Technology and Director of the Cornell Institute of Food Science, Cornell University Ithaca/Geneva, NY.

Graduate Commencement Addresses: **(posted at:** https://www.linkedin.com/in/mrmclellan)

- McLellan, M.R., May 28, 2014, "**Celebrating Our Differences —**", Linked_In Post, URL: https://www.linkedin.com/pulse/20140528231051-35092486-celebrating-our-differences?trk=pulse_spock-articles

- McLellan, M.R., May 1, 2015, "**USU Culture Eats Strategy**", Linked_In Post, URL: https://www.linkedin.com/pulse/usu-culture-eats-strategy-mark-mclellan?trk=pulse_spock-articles

- McLellan, M.R., May 13, 2016, "**B-17 Flying Fortress Pilot's Words for Today's Graduates ---"**, Linked_In Post, URL: https://www.linkedin.com/pulse/b-17-flying-fortress-pilots-words-todays-graduates-mark-mclellan?trk=mp-reader-card

Full Listing of my career publications is online at:
https://www.researchgate.net/profile/Mark_Mclellan