

Moore, Marsha M.

From: Loyalka, Sudarshan K.
Sent: Monday, May 14, 2012 6:30 AM
To: Duncan, Robert V. (Vice Chancellor of Research)
Cc: Prelas, Mark A.
Subject: RE: Missouri University - Columbia Visit

Rob:

Thanks. I will plan to have a first few slides on the range of education and research in NSEI (we have several grants from NRC and DOE, DOEd (relating to course development, fellowships, research projects), and then get to the Accident Source Terms for SMR's. I think this will be most helpful to the visitors as well as MU. As you suggest, I will spend more time where I see greater interest.


I had sent a copy of the report to Brady. I heard back from him on Friday, he was very complimentary & wants NSEI engagement with Ameren/Westinghouse project-I will forward you a copy of his email.

Sudarshan

From: Duncan, Robert V. (Vice Chancellor of Research)
Sent: Monday, May 14, 2012 4:37 AM
To: Loyalka, Sudarshan K.
Cc: Prelas, Mark A.
Subject: Re: Missouri University - Columbia Visit

Thanks, Sudarshan. I agree with Mark that both titles are relevant. It may be best to emphasize 'Accident Source Terms for SMR's' with reference to your comprehensive NRC study that you sent me. The closer that this can be tied to SMR and the needs of their effort, the better. Possibly just sense their interests during your talk and shift between technology and education based upon their leanings at the time.

Rob

R. V. Duncan, Ph.D.
Vice Chancellor for Research
Professor of Physics
University of Missouri
Cell: 
Office: (573) 882-9500

On May 10, 2012, at 6:27 AM, "Loyalka, Sudarshan K." <LoyalkaS@missouri.edu> wrote:

Rob:

Thanks. I will look forward to it.

The title of my presentation might be changed to

Accident Source Term for SMR's

or

Nuclear Engineering Education and Research at NSEI

I have no particular preference between the two titles. These are just suggestions.

Sudarshan

From: Duncan, Robert V. (Vice Chancellor of Research)
Sent: Wednesday, May 09, 2012 6:21 PM
To: Deaton, Brady (Chancellor)
Cc: Foster, Brian L. (Provost); Smith, Gloria; Davis, Teresa L. (Provost Office); McGruder, Ann C.; Justice, George; Thompson, James E.; Butler, Ralph; O'Brien, Michael J. (A&S Dean); Middleton, Michael; Loyalka, Sudarshan K.; Schwartz, Robert W.; Robertson, J. David; Prelas, Mark A.; Taub, Haskell; Pfeifer, Peter; Gahl, John M.; Solbrekken, Gary
Subject: RE: Missouri University - Columbia Visit

All,

Please see our draft schedule below for the visit by Ameren and Westinghouse on the afternoon of Wednesday, June 6, 2012. This is an exceptionally important visit, and it is critical that we convey our excitement to participate in this effort, and our 'single team' approach. Ameren and Westinghouse have stressed that they want a comprehensive engagement of engineers in Civil, Nuclear, Mechanical, and Electrical Engineering, and that they want to know about the basic materials characterization research that we can bring to this collaboration. It is of paramount importance that we convey our 'One Mizzou' spirit at this event.

I will be able to attend, having adjusted my schedule accordingly. We will proceed with this as our draft schedule, but please do provide any feedback to me as we will finalize this plan in the near future, following feedback from Ameren and Westinghouse officials tomorrow. We will be in touch soon to coordinate speaking points, and to collect slide decks for projection into a master deck, etc.

Thanks,

Rob

R. V. Duncan, Ph.D.
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Professor of Physics
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duncanrv@missouri.edu
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F: (573) 884-8371

Proposed Schedule, Westinghouse / Ameren Visit, June 6, 2012

12:00 – 1:15 PM	Welcome and Working Lunch Deputy Chancellor Mike Middleton, Welcome CTO and SVP for Research Kate Jackson, Westinghouse Perspective Comments from the ranking Ameren Official Vice Chancellor for Research Rob Duncan, Schedule for the day, and MU's Technical Depth to support SMR
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1:30 – 2:50 PM

MU's Collaborative Capabilities

Session Chair : Dean Michael O'Brien, College of Arts and Science

1:30 – 2:00 PM Summary of Engineering at MU

James Thompson, Dean of Engineering

John Gahl, C.W. LaPierre Professor of Electrical Engineering

Gary Solbrekken, Associate Professor of Mechanical and Aerospace Engineering

2:00 – 2:20 PM Aerosol, Particulates, and Safety for SMR Design

Sudarshan Loyalka, Curators' Professor of Nuclear Engineering

Nuclear Science and Engineering Institute

2:20 – 2:35 PM Overview of Radiochemistry capabilities at MU

Dave Robertson, Professor of Chemistry and Associate Director, MU Research Reactor (MURR)

2:35 – 2:50 PM Neutron Scattering and Materials Characterization

Haskell Taub, Professor of Physics

3:00 – 4:00 PM

Team Presentation by Westinghouse and Ameren, followed by Q/A

**4:30 – 5:30 PM
capabilities**

Tour of the MU Research Reactor (MURR) and associated programs and

Ralph Butler, Director fo MURR

5:30 – 6:00 PM

Closing Comments, and Adjorn

Rob Duncan, Vice Chancellor for Research

Others

Moore, Marsha M.

From: Duncan, Robert V. (Vice Chancellor of Research)
Sent: Monday, May 14, 2012 9:26 AM
To: Loyalka, Sudarshan K.
Cc: Prelas, Mark A.
Subject: RE: Nuclear Source Term

Thanks, Sudarshan. This is great news. I wish you the best on the MST visit, and I am always ready to support such visits to MU in any way that you would like. Often that means that I simply stay out of the way, but if they need any reassurance from Research Administration, please just let me know.

Rob

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F: (573) 884-8371

From: Loyalka, Sudarshan K.
Sent: Monday, May 14, 2012 7:05 AM
To: Duncan, Robert V. (Vice Chancellor of Research)
Cc: Prelas, Mark A.
Subject: RE: Nuclear Source Term

Rob:

I should also let you know that we have a delegation of four faculty members from MST (including chair of their ChE dept) visiting NSEI today to discuss future collaborations. They had been advised by DOE this year to work with us-& see our labs, etc.

MST is a part of our DOE supported VHTR reserach consortium (that we lead)-

Sudarshan

From: Loyalka, Sudarshan K.
Sent: Monday, May 14, 2012 7:00 AM
To: Duncan, Robert V. (Vice Chancellor of Research)
Cc: Prelas, Mark A.
Subject: FW: Nuclear Source Term

Rob:

I am following up on my earlier email to you. Brady is quite clear in his strong advocacy of NSEI engagement.

Sudarshan

From: Deaton, Brady (Chancellor)
Sent: Friday, May 11, 2012 5:12 PM
To: Loyalka, Sudarshan K.

Cc: McGruder, Ann C.
Subject: RE: Nuclear Source Term

Sudarshan,

Thanks very much for sharing this document, and congratulations on being asked to participate in such a critical peer review team process! We are proud of the stature you have achieved that led to this participation. Like you, I assume that the proposed work of Ameren/Westinghouse in the SMR development would require something similar.

At the initial news conference held by the Governor in Jeff City, the Ameren/Westinghouse leadership present indicated that they wanted MU's involvement up front in the process. I viewed that as good news for us, and a tribute to your work. You and your colleagues and students in NSEI will undoubtedly be involved in those next steps. We will be strong advocates for your involvement.

Again, thanks for sharing your report and your thoughts.
Best wishes as we enter the summer season.

Brady

: Wednesday, May 09, 2012 10:00 PM

To: Deaton, Brady (Chancellor)

Cc: McGruder, Ann C.

Subject: Nuclear Source Term

Importance: High

Dear Brady

I have attached copy of a recent report from the Nuclear Regulatory Commission on what is known as the Nuclear Source Term. I was among the six peer reviewers who participated in this in 2011 (we had one participant each from Japan and France).

Undoubtedly, these types of studies/simulations would be required for Ameren/Westinghouse AP-250 (SMR) design and licensing. Our students and my colleagues in the NSEI and I look forward to contributing to the efforts in any way we can.

Sudarshan

Sudarshan K. Loyalka
Curators' Professor of Nuclear Engineering, NSEI, MU

Moore, Marsha M.

From: Banken, Mary Jo (News Bureau)
Sent: Monday, May 14, 2012 12:57 PM
To: Wampler, Susan
Cc: Thompson, James E.
Attachments: NSEI talking points.5.10.12.docx; dean's letter.NSEI.COE.docx

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

Susan, I have attached a copy of your letter with a few revisions (in red) and a copy of a draft of talking points for use by others. Chris and I reviewed both documents together. She is meeting with the Chancellor at 4 to review with him.

I'll get back with you tomorrow concerning the outcome of that meeting, OK? Until then, of course, please don't circulate any of this.

Thanks so much!

Mary Jo Banken
Executive Director
MU News Bureau
573-882-6212

Talking Points

Current Status of Nuclear Science and Engineering at MU

The University of Missouri remains fully committed to excellence in nuclear science and engineering in service to our students, our state and our nation. MU is reconfiguring its resources to maximize their potential in the face of new demands and opportunities.

Currently productive discussions are occurring among MU's administration, NSEI faculty and faculty from MU's College of Engineering.

Based on these discussions, the following agreements have been reached:

1. NSEI as a unit and its programs will remain in full operation – current faculty will remain engaged, curriculum will be offered, staff and other support will be continued -- until all current students and those admitted in 2012 have graduated.
2. All current NSEI faculty members' tenure homes will move from the Graduate School, effective July 2014. Their current status as tenured faculty members will continue including all rights and responsibilities of this status. The university greatly values the many contributions NSEI faculty have made to the university and to the nuclear engineering industry. These contributions include the recent naming of Dr. Sudarshan Loyalka as one of six reviewers who participated in an important Nuclear Regulatory Commission report.

In order to maximize opportunities in the nuclear science and engineering areas, take advance of multiple resources on campus and achieve national accreditation of MU's nuclear engineering degree, current discussions involve the College of Engineering (COE) adding nuclear engineering to the graduate degrees available to students in the COE.

The College of Engineering is currently preparing the curriculum, organizing the faculty, and obtaining necessary approvals to offer the MS and PhD degrees in Nuclear Engineering. This Nuclear Engineering Program (NEP) will offer nationally accredited MS and PhD research degrees in engineering areas that support the design, construction, operation and maintenance of nuclear plants, as well as courses, curriculum and research to support other areas such as biological effects, environmental issues, construction materials, instruction, policy issues and others. The NEP will be guided and taught by the 120-research faculty from COE's seven engineering departments with close coordination from the major college programs of mechanical, electrical, civil, and chemical engineering. The addition of NEP will allow educational and research programs with MU's Research Reactor (MURR) to be strengthened and grown.

The College of Engineering is well positioned and committed to leading these nuclear engineering programs, which will offer faculty and students broader opportunities as well as

ABET accreditation. The COE now has approximately 3,000 undergraduate students and 600 graduate students. Engineering undergraduate students enter with an average ACT score at the 93rd national percentile. Overall college enrollment is growing at 11% per year with freshman enrollment in 2011 and 2012 up more than 20%. The college not only prides itself for excellence and innovation in education but also for conducting world-class research that produces new knowledge and new researchers for the future. COE faculty research, largely sponsored by the National Science Foundation, the Department of Defense, the Department of Energy, and the National Institute of Health, is high impact, collaborative, and interdisciplinary, and has grown from less than \$10M to more than \$30M in little more than 10 years.

All programs in the College of Engineering are ABET (Accreditation Board for Engineering and Technology, Inc.) accredited programs. ABET accreditation is an internationally recognized assurance that graduates have a solid educational foundation and are capable of leading the way in innovation, emerging technologies, and in anticipating the welfare and safety needs of the public.

In addition to these internal conversations, the university is engaged in talks with external entities that are interested in collaborating with our engineering faculty. For example, the university has expressed interest in collaborating with Ameren and Westinghouse on the Small Modular Reactor Industry Partnership Program. Warner Baxter, president and CEO of Ameren, has confirmed that they are looking forward to collaborating with MU in this important effort to secure the state of Missouri's and our country's energy and economic future.

We believe these actions will provide new opportunities for NSEI and COE faculty and the students they serve, and we look forward to providing a strong nuclear science and engineering curriculum and degree offerings for generations to come.

Dear alumni and friends,

As you have often heard me say, these are extraordinary times in the College of Engineering. I want to let you know that not only are these extraordinary times, but also exciting times!

Our College of Engineering now has approximately 3,000 undergraduate students and 600 graduate students. Our undergraduate students enter with an average ACT score at the 93rd national percentile. Overall college enrollment is growing at 11% per year with freshman enrollment in 2011 and 2012 up more than 20%. The college not only prides itself for excellence and innovation in education but also for conducting world-class research that produces new knowledge and new researchers for the future. Our research, largely sponsored by the National Science Foundation, the Department of Defense, the Department of Energy, and the National Institutes of Health, is high impact, collaborative, and interdisciplinary, and has grown from less than \$10M to more than \$30M in little more than 10 years - and continues to grow!

Because of the level of research here at MU (of which the college is a significant contributor), we are the only public university in Missouri to receive accreditation from the prestigious Association of American Universities (AAU) - an association of 61 leading research universities in the United States and Canada. In addition to MU's status with AAU, all the programs in the College of Engineering are ABET (Accreditation Board for Engineering and Technology, Inc.) accredited programs. Why does this matter? ABET accreditation is an internationally recognized assurance that the graduates we produce have a solid educational foundation and are capable of leading the way in innovation, emerging technologies, and in anticipating the welfare and safety needs of the public.

To add to this good news, this fall the College of Engineering is adding nuclear engineering to the graduate degrees available to students. These Nuclear Engineering degrees will build on the strengths of the College of Engineering, MU's Research Reactor (MURR), and the interdisciplinary instructional and research campus opportunities offered by physics, chemistry, life sciences, medicine, and our policy institutes.

In recent years, this degree has been offered through MU's Nuclear Science Engineering Institute, which has been a part of MU's Graduate School. Due to a reorganization that will effectively broaden nuclear engineering opportunities and take full advantage of broad-based resources in the nuclear science and engineering fields, the degree will be offered by the College of Engineering effective in July 2014.

The College is currently preparing the curriculum, organizing the faculty, and obtaining necessary approvals to offer the MS and PhD degrees in Nuclear Engineering. This Nuclear Engineering Program (NEP) will offer nationally accredited MS and PhD research degrees in engineering areas that support the design, construction, operation and maintenance of nuclear plants, as well as courses, curriculum and research to support other areas such as biological effects, environmental issues, construction materials, instruction, policy issues and others. The NEP will be guided and taught by the 120-research faculty from our seven engineering departments with close coordination from the major college programs of mechanical, electrical, civil, and chemical engineering. The addition of NEP will allow educational and research programs with the Missouri University Research Reactor (MURR) to be strengthened and grown.

I want to assure you that the MU College of Engineering is well positioned, well qualified and committed to leading these Nuclear Engineering programs. Our goal is to administer these new degrees in a manner that best serves industry and our students while maintaining national accredited teaching and curriculum standards, and research performance commensurate with MU's AAU status.

Stay tuned! I look forward to sharing more "good news" in the future as our enrollment, research, and new nuclear engineering programs continue to grow and develop.

Best regards,

Jim Thompson, Dean

PS As you know, most of our "news" is distributed during advisory council/board meetings, or in our e-newsletter and in our magazine, Mizzou Engineer. If you are not already receiving the e-newsletter or Mizzou Engineer, but would like to, please contact our communications department and provide them with your email address and/or preferred mailing address. They will see you are added to either or both of these lists. (add college email address and phone number)

Moore, Marsha M.

From: Foster, Brian L. (Provost)
Sent: Monday, May 14, 2012 1:42 PM
To: Deaton, Brady (Chancellor)
Subject: Re: Ameren / Westinghouse

I think it might be worth Rob (or someone) exploring--\$100K from PRIME, maybe same from Rolla and maybe same from Mizzou Advnatage Eneergy initiative would be at least a good symbolic commitment...especially in view of the noise about NSEI. I realize we have a supportive letter from AMEREN, but nonetheless, my guess is that there is some lack of comfort about either our level of commitment or ability to carry out the vision, given the last 15 years of not moving forward. For what it's worth...

Brian

Sent from my iPad

On May 14, 2012, at 7:15 AM, "Deaton, Brady (Chancellor)" <DeatonB@missouri.edu> wrote:

> Brian,
> Would like to get your sense of this. We have not seen the Ameren/Westinghouse proposal. Theirs is a major commitment. They have not asked us to match, as I understand. Should we offer?

> Thanks.

> Brady

>

> -----Original Message-----

> From: Duncan, Robert V. (Vice Chancellor of Research)

> Sent: Monday, May 14, 2012 5:14 AM

> To: Deaton, Brady (Chancellor); Foster, Brian L. (Provost)

> Cc: Smith, Gloria; Davis, Teresa L. (Provost Office); McGruder, Ann C.; Schwartz, Robert W.

> Subject: Ameren / Westinghouse

>

> I just copied you on an e-discussion regarding the possibility of getting MU and MS&T written into the Ameren / Westinghouse proposal to design, test and deliver Small Modular Reactors (SMR) around the world. The proposal is do on May 21, and the DOE requires a match. We could make a modest match out of PRIME. I had suggested a \$100K match from us and from MS&T, which would result in a \$200K match from us together. I have not yet discussed this with legal or OSPA -- we will have to be careful to be sure that this is set up appropriately if it moves forward. It would be best if Ameren / Westinghouse would include us as the lead academic institutions without a match requirement, but to be significant we should be in the budget. Are you alright with us moving forward in this manner?

> Thanks,

> Rob

>

> *****

> R. V. Duncan, Ph.D.

> Vice Chancellor for Research

> Professor of Physics

> University of Missouri

> Cell: (505) 450-7480

> Office: (573) 882-9500

>

Moore, Marsha M.

From: Duncan, Robert V. (Vice Chancellor of Research)
Sent: Monday, May 14, 2012 3:13 PM
To: Smith, Gloria
Subject: FW: Missouri University - Columbia Visit

Gloria, this is what I have compiled so far.

R. V. Duncan, Ph.D.
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Professor of Physics
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duncanrv@missouri.edu
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F: (573) 884-8371

From: Duncan, Robert V. (Vice Chancellor of Research)
Sent: Wednesday, May 09, 2012 7:02 PM
To: 'Anness, Michael'
Cc: Marx, Kate; 'Bond, Scott M'; 'Wood, Warren'; Sobel, Annette; Krishnamurthy, K.; Foster, Brian L. (Provost); Deaton, Brady (Chancellor); Middleton, Michael; Schwartz, Robert W.
Subject: RE: Missouri University - Columbia Visit

Dear Mike,

Here is our proposed draft schedule for June 6, below. Let's discuss and revise it as necessary. Please let me know if you would like to specify the speaking roles for Westinghouse and Ameren. Please note that I have rearranged schedules so that I can attend on June 6.

Would you have a short list of specific skills and techniques where you are seeking expertise to expand the collaborative depth between Westinghouse and Ameren? If so, please send it on and we will try to customize our presentations around those identified needs.

Thanks,

Rob

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Professor of Physics
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12:00 – 1:15 PM

Welcome and Working Lunch

Deputy Chancellor Mike Middleton, Welcome
CTO and SVP for Research Kate Jackson, Westinghouse Perspective
Comments from the ranking Ameren Official
Vice Chancellor for Research Rob Duncan, Schedule for the day, and MU's Technical Depth to

support SMR

1:30 – 2:50 PM

MU's Collaborative Capabilities

Session Chair : Dean Michael O'Brien, College of Arts and Science

1:30 – 2:00 PM Summary of Engineering at MU

James Thompson, Dean of Engineering

John Gahl, C.W. LaPierre Professor of Electrical Engineering

Gary Solbrekken, Associate Professor of Mechanical and Aerospace Engineering

2:00 – 2:20 PM Accident Source Term for SMR's and Nuclear Engineering Education and Research at NSEI

Sudarshan Loyalka, Curators' Professor of Nuclear Engineering

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2:20 – 2:35 PM Overview of Radiochemistry capabilities at MU

Dave Robertson, Professor of Chemistry and Associate Director, MU Research Reactor (MURR)

2:35 – 2:50 PM Neutron Scattering and Materials Characterization

Haskell Taub, Professor of Physics

3:00 – 4:00 PM

Team Presentation by Westinghouse and Ameren, followed by Q/A

4:30 – 5:30 PM

Tour of the MU Research Reactor (MURR) and associated programs and capabilities

Ralph Butler, Director of MURR

5:30 – 6:00 PM

Closing Comments

Rob Duncan, Vice Chancellor for Research

Others

Moore, Marsha M.

From: Duncan, Robert V. (Vice Chancellor of Research)
Sent: Monday, May 14, 2012 3:27 PM
To: Anness, Michael
Cc: Schwartz, Robert W.; Smith, Gloria
Subject: FW: Missouri University - Columbia Visit

Michael,

Here is the agenda as we have it now. Our System counterparts will meet on this tomorrow. President Wolfe of the UM System may be interested in attending and speaking at the working lunch. I will advise once I know their plans.

Please let me know the names of those who will be speaking for Westinghouse and Ameren if you would like me to list them by name in the 3- 4 PM time slot. Also, who should we list as the ranking Ameren official to speak briefly at the working lunch?

Please let me know if you have any specific identified needs that we should be sure to focus on. Professor Loyalka asked that I change his title as listed below. He will discuss his recent high-level work with NRC on SMR accident source terms, if you feel this is appropriate. This will likely be a very useful contribution to our collective efforts to license the SMR's, and I know that Professor Loyalka, like all of us, will be pleased to contribute to this effort in any way that we can. But if this title is too detailed, in your opinion, I will get back to Prof. Loyalka on this.

Please let me know if you would like to discuss this over the phone again for closure before June 6. I will be out from May 18 – 24, but I will be available on my cell phone at 505-450-7480 or on my office number (573-882-9500) other times.

Thanks,

Rob

R. V. Duncan, Ph.D.
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Sent: Wednesday, May 09, 2012 7:02 PM
To: 'Anness, Michael'
Cc: Marx, Kate; 'Bond, Scott M'; 'Wood, Warren'; Sobel, Annette; Krishnamurthy, K.; Foster, Brian L. (Provost); Deaton, Brady (Chancellor); Middleton, Michael; Schwartz, Robert W.
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Thanks,

Rob

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Proposed DRAFT Schedule, Westinghouse / Ameren Visit, June 6, 2012

- 12:00 – 1:15 PM** **Welcome and Working Lunch**
Deputy Chancellor Mike Middleton, Welcome
CTO and SVP for Research Kate Jackson, Westinghouse Perspective
Comments from the ranking Ameren Official
Vice Chancellor for Research Rob Duncan, Schedule for the day, and MU's Technical Depth to support SMR
- 1:30 – 2:50 PM** **MU's Collaborative Capabilities**
Session Chair : Dean Michael O'Brien, College of Arts and Science
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James Thompson, Dean of Engineering
John Gahl, C.W. LaPierre Professor of Electrical Engineering
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Sudarshan Loyalka, Curators' Professor of Nuclear Engineering
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Ralph Butler, Director of MURR

5:30 – 6:00 PM

Closing Comments

Rob Duncan, Vice Chancellor for Research

Others

Moore, Marsha M.

From: Don Flora <donflora@kc.rr.com>
Sent: Monday, May 14, 2012 4:13 PM
To: Thompson, James E.
Subject: NSEI

Jim,

A number of people have sent me links to the May 6 and May 13 articles and editorial comment about the NSEI flap.

Is there anything you believe we (alums) should be doing in this matter?

Shutting up is always an option, but I thought I would check with you first.

Hope you are well.

Don