

**FREEDM Industry Advisory Board**  
**GEH Industry Budget Approval**  
 December 4, 2017



The ILO sent an email requesting approval for the NYPA Full Member Fellowship approval on December 4, 2017. Members voted via email as shown below. Quorum is 9 votes. Measure approved.

<b>Company</b>	<b>Membership Level</b>	<b>Yes</b>	<b>No</b>
ABB	Full	50	
Duke Energy	Full	50	
Eaton	Associate	15	
EPRI	Associate	15	
FPL	Associate	15	
Fuji Electric	Associate		
Hitachi	Associate		
Huawei	Associate		
Itron	Full		
LORD Corp	Associate		
NYPA	Full		
Pos-En	Associate	15	
SAS	Associate	15	
Schneider	Associate	15	
Sensus	Associate		
Toshiba	Associate		
Total	Full	50	
Toyota	Associate		
Weidmann	Associate	15	
	<b>Project Total</b>	255	0

**FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7**

19 messages

Ken Dulaney &lt;ken\_dulaney@ncsu.edu&gt;

Mon, Dec 4, 2017 at 11:21 AM

To: Iulian Nistor <iulian.nistor@us.abb.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Gajda, John" <john.gajda@duke-energy.com>, "Chen, Ke" <Ke.Chen@duke-energy.com>, geraldonojima@eaton.com, "Yanniello, Robert" <RobertYanniello@eaton.com>, "Stella, Stephen" <sstella@epri.com>, "Rogers, Bruce" <broggers@epri.com>, "Sanchez, Francisco" <Francisco.Sanchez@fpl.com>, "Taylor, Paul J" <Paul.j.Taylor@fpl.com>, "Critelli, Ron" <Ron.Critelli@fpl.com>, "叶田玲彦 / KANOUDA, AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, yuichi.mabuchi.wz@hitachi.com, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@itron.com>, "Driscoll, Tim" <Tim.driscoll@itron.com>, "Ettlinger, Alan" <Alan.Ettlinger@nypa.gov>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>, Adam Gregory <Adam.gregory@pos-en.com>, Daniel Constantine Gregory <dan.gregory@pos-en.com>, Paul Gregory <paul.gregory@pos-en.com>, Arnie de Castro <Arnie.deCastro@sas.com>, Tim Fairchild <Tim.Fairchild@sas.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, greg.myers@sensus.com, "Gregory, Jared" <jared.gregory@xylem.com>, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, yoichi.morishima@toshiba.co.jp, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, Wentze ZENG <wentze.zeng@total.com>, Franck RAGOT <franck.ragot@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, giuseppe.gatti@wicor.com, Giuseppe Simioli <giuseppe.simioli@wicor.com>

Cc: Iqbal Husain <ihusain2@ncsu.edu>

Dear IAB,

I mentioned earlier that there are a few business items I would like to complete before our face to face meeting next week. We have one request for an Enhancement Project and an invitation to participate in the CREDENCE Industry Advisory Committee.

1. NYPA is requesting approval for a Fellowship student as allowed in our bylaws. This is a program offered to Full Members that allows them to pay an additional fee and designate a portion of their dues to fund a student who's research will be shared with all members. You may recall that we approved a Fellowship Student for Total in August. This is a similar request but from NYPA. The proposed project scope is attached. Note that this vote is not requesting additional funds from members but just granting approval to NYPA to allocate their dues to a particular project. **Please reply with Yes or No to this email.**
2. FREEDM IAB members are also invited to attend a webinar this Thursday, December 7, at 11 am US eastern for the CREDENCE Project Industry Advisory Committee. A flyer with details on the project is attached. This is the joint project between FREEDM and several university research centers in Ireland to develop an island-wide energy management approach. And industry input is highly valued! Please RSVP to [sean.mcauliffe@ucc.ie](mailto:sean.mcauliffe@ucc.ie) if you plan to attend. He will send you the webex link and presentations from the morning sessions.
3. Hopefully, you noticed that the CREDENCE call overlaps somewhat with our regular IAB monthly call. Since we'll be face to face next week, we will cancel this call on Thursday. Now you should be free to join the CREDENCE call if you can!

Let me know if you have any questions.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

**2 attachments**

 FREEDM Fellowship SOW - NYPA Control using FACTS and Wind.pdf

91K

 **CREDENGE Brochure 2017.pdf**  
1141K

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**Gajda, John W** <John.Gajda@duke-energy.com>

Mon, Dec 4, 2017 at 3:06 PM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Chen, Kevin" <Kevin.Chen@duke-energy.com>, "geraldonojima@eaton.com" <geraldonojima@eaton.com>, "Yanniello, Robert" <RobertYanniello@eaton.com>, "Stella, Stephen" <sstella@epri.com>, "Rogers, Bruce" <broggers@epri.com>, "Sanchez, Francisco" <Francisco.Sanchez@fpl.com>, "Taylor, Paul J" <Paul.j.Taylor@fpl.com>, "Critelli, Ron" <Ron.Critelli@fpl.com>, "叶田玲彦 / KANOUDA, AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "yuichi.mabuchi.wz@hitachi.com" <yuichi.mabuchi.wz@hitachi.com>, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@itron.com>, "Driscoll, Tim" <Tim.driscoll@itron.com>, "Ettlenger, Alan" <Alan.Ettlenger@nypa.gov>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>, Adam Gregory <Adam.gregory@pos-en.com>, Daniel Constantine Gregory <dan.gregory@pos-en.com>, Paul Gregory <paul.gregory@pos-en.com>, Arnie de Castro <Arnie.deCastro@sas.com>, Tim Fairchild <Tim.Fairchild@sas.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "greg.myers@sensus.com" <greg.myers@sensus.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, "yoichi.morishima@toshiba.co.jp" <yoichi.morishima@toshiba.co.jp>, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, Wente ZENG <wente.zeng@total.com>, Franck RAGOT <franck.ragot@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "giuseppe.gatti@wicor.com" <giuseppe.gatti@wicor.com>, Giuseppe Simioli <giuseppe.simioli@wicor.com>  
Cc: Iqbal Husain <ihusain2@ncsu.edu>

Ken,

Please consider Duke's vote a "YES" to the NYPA fellowship.

Thanks,

John Gajda

John W. Gajda, P.E.

Director, DER Operations Support

Distributed Energy Technologies department

Duke Energy

411 Fayetteville Street, NC16

Raleigh, NC 27601

[John.Gajda@duke-energy.com](mailto:John.Gajda@duke-energy.com)

(919) 546-4697 –office

---

**From:** Ken Dulaney [mailto:[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)]

**Sent:** Monday, December 04, 2017 11:22 AM

**To:** Iulian Nistor; Sandeep Bala; Gajda, John W; Chen, Kevin; [geraldonojima@eaton.com](mailto:geraldonojima@eaton.com); Yanniello, Robert; Stella,

Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; 叶田玲彦 / KANOUDA, AKIHIKO; [yuichi.mabuchi.wz@hitachi.com](mailto:yuichi.mabuchi.wz@hitachi.com); Heping Dai; Reznack, Andrew; Driscoll, Tim; Ettliger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild; John Shea; Kenny Aron; [greg.myers@sensus.com](mailto:greg.myers@sensus.com); Gregory, Jared; Dickerson, Paula; [yoichi.morishima@toshiba.co.jp](mailto:yoichi.morishima@toshiba.co.jp); Liu, Peter (TIC); Wenté ZENG; Franck RAGOT; Jae Lee (TEMA TTC); [giuseppe.gatti@wicor.com](mailto:giuseppe.gatti@wicor.com); Giuseppe Simioli

**Cc:** Iqbal Husain

**Subject:** FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

**\*\*\* Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\***

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**Rogers, Bruce** <[brogers@epri.com](mailto:brogers@epri.com)>  
To: Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>

Mon, Dec 4, 2017 at 10:01 PM

EPRI is a "Yes."

Best Regards,

Bruce

EPRI, Power Delivery & Utilization

Phone: [423.341.4606](tel:423.341.4606)

**From:** Ken Dulaney [[mailto:ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)]

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**Cc:** Iqbal Husain <[ihusain2@ncsu.edu](mailto:ihusain2@ncsu.edu)>

**Subject:** [EXTERNAL] FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

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**Yanniello, Robert** <RobertYanniello@eaton.com>

Tue, Dec 5, 2017 at 11:54 AM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Cc: Iqbal Husain <ihusain2@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Gajda, John" <john.gajda@duke-energy.com>, "Chen, Ke" <Ke.Chen@duke-energy.com>, "Nojima, Gerald" <GeraldNojima@eaton.com>, "Stella, Stephen" <sstella@epri.com>, "Rogers, Bruce" <brogers@epri.com>, "Sanchez, Francisco" <Francisco.Sanchez@fpl.com>, "Taylor, Paul J" <Paul.j.Taylor@fpl.com>, "Critelli, Ron" <Ron.Critelli@fpl.com>, "???? / KANOUDA, AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "yuichi.mabuchi.wz@hitachi.com" <yuichi.mabuchi.wz@hitachi.com>, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@itron.com>, "Driscoll, Tim" <Tim.driscoll@itron.com>, "Ettlinger, Alan" <Alan.Ettlinger@nypa.gov>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>, Adam Gregory <Adam.gregory@pos-en.com>, Daniel Constantine Gregory <dan.gregory@pos-en.com>, Paul Gregory <paul.gregory@pos-en.com>, Arnie de Castro <Arnie.deCastro@sas.com>, Tim Fairchild <Tim.Fairchild@sas.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "greg.myers@sensus.com" <greg.myers@sensus.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, "yoichi.morishima@toshiba.co.jp" <yoichi.morishima@toshiba.co.jp>, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, Wenté ZENG <wente.zeng@total.com>, Franck RAGOT <franck.ragot@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "giuseppe.gatti@wicor.com" <giuseppe.gatti@wicor.com>, Giuseppe Simioli <giuseppe.simioli@wicor.com>

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Let me know if you have any questions.

Ken Dulaney, PE

Director of Industry and Innovation

FREEDM Systems Center

(919) 513-2996 Office

(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

---

**Wente ZENG** <[wente.zeng@total.com](mailto:wente.zeng@total.com)>  
To: Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>

Tue, Dec 5, 2017 at 12:10 PM

Hi Ken

Yes from Total.

Thanks!

Wente

---

**From:** Ken Dulaney [[mailto:ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)]

**Sent:** Monday, December 04, 2017 11:22 AM

**To:** Iulian Nistor; Sandeep Bala; Gajda, John; Chen, Ke; [geraldonojima@eaton.com](mailto:geraldonojima@eaton.com); Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; 叶田玲彦 / KANOUDA, AKIHIKO; [yuichi.mabuchi.wz@hitachi.com](mailto:yuichi.mabuchi.wz@hitachi.com); Heping Dai; Reznack, Andrew; Driscoll, Tim; Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild; John Shea; Kenny Aron; [greg.myers@sensus.com](mailto:greg.myers@sensus.com); Gregory, Jared; Dickerson, Paula; [yoichi.morishima@toshiba.co.jp](mailto:yoichi.morishima@toshiba.co.jp); Liu, Peter (TIC); Wente ZENG; Franck RAGOT; Jae Lee (TEMA TTC); [giuseppe.gatti@wacor.com](mailto:giuseppe.gatti@wacor.com); Giuseppe Simioli

**Cc:** Iqbal Husain

**Subject:** FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

Dear IAB,

[Quoted text hidden]

**Daniel Gregory** <dan.gregory@pos-en.com>

Tue, Dec 5, 2017 at 6:16 PM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>, "Yanniello, Robert" <robertyanniello@eaton.com>  
Cc: Iqbal Husain <ihusain2@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Gajda, John" <john.gajda@duke-energy.com>, "Chen, Ke" <ke.chen@duke-energy.com>, "Nojima, Geraldo" <geraldonojima@eaton.com>, "Stella, Stephen" <sstella@epri.com>, "Rogers, Bruce" <brogers@epri.com>, "Sanchez, Francisco" <francisco.sanchez@fpl.com>, "Taylor, Paul J" <paul.j.taylor@fpl.com>, "Critelli, Ron" <ron.critelli@fpl.com>, "???? / KANOUDA,AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "yuichi.mabuchi.wz@hitachi.com" <yuichi.mabuchi.wz@hitachi.com>, Heping Dai <heping.dai@huawei.com>, "Reznack, Andrew" <andrew.reznack@itron.com>, "Driscoll, Tim" <tim.driscoll@itron.com>, "Ettlinger, Alan" <alan.ettlinger@nypa.gov>, "Darvishi, Atena" <atena.darvishi@nypa.gov>, Adam Gregory <adam.gregory@pos-en.com>, Paul Gregory <paul.gregory@pos-en.com>, Arnie de Castro <arnie.decastro@sas.com>, Tim Fairchild <tim.fairchild@sas.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "greg.myers@sensus.com" <greg.myers@sensus.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Dickerson, Paula" <paula.dickerson@sensus.com>, "yoichi.morishima@toshiba.co.jp" <yoichi.morishima@toshiba.co.jp>, "Liu, Peter (TIC)" <peter.liu@toshiba.com>, Wenté ZENG <wente.zeng@total.com>, Franck RAGOT <franck.ragot@total.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "giuseppe.gatti@wicor.com" <giuseppe.gatti@wicor.com>, Giuseppe Simioli <giuseppe.simioli@wicor.com>

Ken,

Pos-En votes "Yes" for NYPA fellowship.

Best,

Dan

Daniel C. Gregory  
CEO  
Pos-En

[919-593-5031](tel:919-593-5031)  
[www.pos-en.com](http://www.pos-en.com)

This email is confidential.

From: Yanniello, Robert  
Sent: Tuesday, December 5, 12:54 PM  
Subject: RE: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7  
To: Ken Dulaney  
Cc: Iqbal Husain, Iulian Nistor, Sandeep Bala, Gajda, John, Chen, Ke, Nojima, Geraldo, Stella, Stephen, Rogers, Bruce, Sanchez, Francisco, Taylor, Paul J, Critelli, Ron, ???? / KANOUDA,AKIHIKO, [yuichi.mabuchi.wz@hitachi.com](mailto:yuichi.mabuchi.wz@hitachi.com), Heping Dai, Reznack, Andrew, Driscoll, Tim, Ettlinger, Alan, Darvishi, Atena, Adam Gregory, Daniel Gregory, Paul Gregory, Arnie de Castro, Tim Fairchild, John Shea, Kenny Aron, [greg.myers@sensus.com](mailto:greg.myers@sensus.com), Gregory, Jared, Dickerson, Paula, [yoichi.morishima@toshiba.co.jp](mailto:yoichi.morishima@toshiba.co.jp), Liu, Peter (TIC), Wenté ZENG, Franck RAGOT, Jae Lee (TEMA TTC), [giuseppe.gatti@wicor.com](mailto:giuseppe.gatti@wicor.com), Giuseppe Simioli

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**Sent:** Monday, December 04, 2017 11:22 AM  
**To:** Iulian Nistor; Sandeep Bala; Gajda, John; Chen, Ke; Nojima, Geraldo; Yanniello, Robert; Stella, Stephen; Rogers, Bruce; Sanchez, Francisco; Taylor, Paul J; Critelli, Ron; 叶田玲彦 / KANOUDA, AKIHIKO; [yuichi.mabuchi.wz@hitachi.com](mailto:yuichi.mabuchi.wz@hitachi.com); Heping Dai; Reznack, Andrew; Driscoll, Tim; Ettlinger, Alan; Darvishi, Atena; Adam Gregory; Daniel Constantine Gregory; Paul Gregory; Arnie de Castro; Tim Fairchild;

John Shea; Kenny Aron; [greg.myers@sensus.com](mailto:greg.myers@sensus.com); Gregory, Jared; Dickerson, Paula; [yoichi.morishima@toshiba.co.jp](mailto:yoichi.morishima@toshiba.co.jp); Liu, Peter (TIC); Wente ZENG; Franck RAGOT; Jae Lee (TEMA TTC); [giuseppe.gatti@wicom.com](mailto:giuseppe.gatti@wicom.com); Giuseppe Simioli

Cc: Iqbal Husain

Subject: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

Dear IAB,

I mentioned earlier that there are a few business items I would like to complete before our face to face meeting next week. We have one request for an Enhancement Project and an invitation to participate in the CREDENCE Industry Advisory Committee.

NYPA is requesting approval for a Fellowship student as allowed in our bylaws. This is a program offered to Full Members that allows them to pay an additional fee and designate a portion of their dues to fund a student who's research will be shared with all members. You may recall that we approved a Fellowship Student for Total in August. This is a similar request but from NYPA. The proposed project scope is attached. Note that this vote is not requesting additional funds from members but just granting approval to NYPA to allocate their dues to a particular project. **Please reply with Yes or No to this email.** FREEDM IAB members are also invited to attend a webinar this Thursday, December 7, at 11 am US eastern for the CREDENCE Project Industry Advisory Committee. A flyer with details on the project is attached. This is the joint project between FREEDM and several university research centers in Ireland to develop an island-wide energy management approach. And industry input is highly valued! Please RSVP to [sean.mcauliffe@ucc.ie](mailto:sean.mcauliffe@ucc.ie) if you plan to attend. He will send you the webex link and presentations from the morning sessions. Hopefully, you noticed that the CREDENCE call overlaps somewhat with our regular IAB monthly call. Since we'll be face to face next week, we will cancel this call on Thursday. Now you should be free to join the CREDENCE call if you can!

Let me know if you have any questions.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile

Visit us at Distributech in San Antonio on January 22-25!

---

Critelli, Ron <[Ron.Critelli@fpl.com](mailto:Ron.Critelli@fpl.com)>  
To: Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>

Tue, Dec 5, 2017 at 8:20 PM

FPL approves NYPA

Sent from my iPhone

> On Dec 4, 2017, at 11:23 AM, Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)> wrote:

>

> CAUTION - EXTERNAL EMAIL

>

>

> Dear IAB,

>

> I mentioned earlier that there are a few business items I would like to complete before our face to face meeting next week. We have one request for an Enhancement Project and an invitation to participate in the CREDENCE Industry Advisory Committee.

>

> 1. NYPA is requesting approval for a Fellowship student as allowed in our bylaws. This is a program offered to Full Members that allows them to pay an additional fee and designate a portion of their dues to fund a student who's research will be shared with all members. You may recall that we approved a Fellowship Student for Total in August. This is a similar request but from NYPA. The proposed project scope is attached. Note that this vote is not requesting additional funds from members but just granting approval to NYPA to allocate their dues to a particular project. Please reply with Yes or No to this email.



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>  
> 3. Hopefully, you noticed that the CREDENCE call overlaps somewhat with our regular IAB monthly call. Since we'll be face to face next week, we will cancel this call on Thursday. Now you should be free to join the CREDENCE call if you can!  
>  
> Let me know if you have any questions.  
>  
> Ken Dulaney, PE  
> Director of Industry and Innovation  
> FREEDM Systems Center  
> (919) 513-2996<tel:(919)%20513-2996> Office  
> (919) 645-8085<tel:(919)%20645-8085> Mobile  
>  
> [<https://docs.google.com/a/ncsu.edu/uc?id=0BxG5mLym7IWYOHFoeWtpRjRJRjRG8&export=download>]  
>  
> Visit us at Distributech in San Antonio on January 22-25!  
> <FREEDM Fellowship SOW - NYPA Control using FACTS and Wind.pdf>  
> <CREDENCE Brochure 2017.pdf>

---

**Ken Dulaney** <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>

Wed, Dec 6, 2017 at 2:43 PM

To: John Shea <[john.shea@schneider-electric.com](mailto:john.shea@schneider-electric.com)>, Kenny Aron <[kenneth.aron@schneider-electric.com](mailto:kenneth.aron@schneider-electric.com)>

Hey John and Kenny, could I get Schneider's vote on NYPA's fellowship request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

[Quoted text hidden]

---

**Ken Dulaney** <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>

Wed, Dec 6, 2017 at 2:43 PM

To: Sandeep Bala <[sandeep.bala@us.abb.com](mailto:sandeep.bala@us.abb.com)>, Iulian Nistor <[iulian.nistor@us.abb.com](mailto:iulian.nistor@us.abb.com)>

Hey Sandeep and Julian, could I get ABB's vote on NYPA's fellowship request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)> wrote:

[Quoted text hidden]

---

**Ken Dulaney** <ken\_dulaney@ncsu.edu>  
To: "Ettlinger, Alan" <Alan.Ettlinger@nypa.gov>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>

Wed, Dec 6, 2017 at 2:45 PM

Atena and Alan,

Just a reminder that NYPA can vote to approve your own request. I know you support it but I need official documentation via email. Thanks. Hoping to get his processed this week so you guys can issue the PO.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <ken\_dulaney@ncsu.edu> wrote:

[Quoted text hidden]

---

**Kenneth Aron** <kenneth.aron@schneider-electric.com>  
To: Ken Dulaney <ken\_dulaney@ncsu.edu>, John Shea <John.Shea@schneider-electric.com>

Wed, Dec 6, 2017 at 2:45 PM

Yes.

**From:** Ken Dulaney [mailto:[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)]  
**Sent:** Wednesday, December 6, 2017 1:43 PM  
**To:** John Shea <[John.Shea@schneider-electric.com](mailto:John.Shea@schneider-electric.com)>; Kenneth Aron <[kenneth.aron@schneider-electric.com](mailto:kenneth.aron@schneider-electric.com)>  
**Subject:** Re: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

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This email has been scanned by the Symantec Email Security.cloud service.

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**Ken Dulaney** <ken\_dulaney@ncsu.edu>  
To: Arnie de Castro <Arnie.deCastro@sas.com>

Wed, Dec 6, 2017 at 2:45 PM

Arnie, can I get SAS's vote on the NYPA request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)> wrote:

[Quoted text hidden]

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**Sandeep Bala** <[sandeep.bala@us.abb.com](mailto:sandeep.bala@us.abb.com)>

Wed, Dec 6, 2017 at 2:45 PM

To: Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>, Iulian Nistor <[iulian.nistor@us.abb.com](mailto:iulian.nistor@us.abb.com)>

Hi Ken,

Sorry for the delayed response. We vote yes to NYPA's request.

Sandeep

---

**From:** Ken Dulaney [mailto:[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)]

**Sent:** Wednesday, December 06, 2017 14:44

**To:** Sandeep Bala <[sandeep.bala@us.abb.com](mailto:sandeep.bala@us.abb.com)>; Iulian Nistor <[iulian.nistor@us.abb.com](mailto:iulian.nistor@us.abb.com)>

**Subject:** Re: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hey Sandeep and Julian, could I get ABB's vote on NYPA's fellowship request?

Ken Dulaney, PE

Director of Industry and Innovation

FREEDM Systems Center

(919) 513-2996 Office

(919) 645-8085 Mobile

[Redacted]

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On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)> wrote:

Dear IAB,

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3. Hopefully, you noticed that the CREDENCE call overlaps somewhat with our regular IAB monthly call. Since we'll be face to face next week, we will cancel this call on Thursday. Now you should be free to join the CREDENCE call if you can!

Let me know if you have any questions.

Ken Dulaney, PE

Director of Industry and Innovation

FREEDM Systems Center

[\(919\) 513-2996](tel:(919)513-2996) Office

[\(919\) 645-8085](tel:(919)645-8085) Mobile

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---

**Ken Dulaney** <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>  
To: Kenneth Aron <[kenneth.aron@schneider-electric.com](mailto:kenneth.aron@schneider-electric.com)>  
Cc: John Shea <[John.Shea@schneider-electric.com](mailto:John.Shea@schneider-electric.com)>

Wed, Dec 6, 2017 at 2:46 PM

Excellent. Thank you.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
 [\(919\) 513-2996](tel:(919)513-2996) Office

(919) 645-8085 Mobile



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[Quoted text hidden]

---

**Ken Dulaney** <ken\_dulaney@ncsu.edu>  
To: Sandeep Bala <sandeep.bala@us.abb.com>  
Cc: Iulian Nistor <iulian.nistor@us.abb.com>

Wed, Dec 6, 2017 at 2:46 PM

Thank you.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



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[Quoted text hidden]

---

**Ken Dulaney** <ken\_dulaney@ncsu.edu>  
To: Heping Dai <Heping.Dai@huawei.com>

Wed, Dec 6, 2017 at 2:48 PM

Heping, could you please vote on NYPA's request?

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
(919) 513-2996 Office  
(919) 645-8085 Mobile



Visit us at Distributech in San Antonio on January 22-25!

On Mon, Dec 4, 2017 at 11:21 AM, Ken Dulaney <ken\_dulaney@ncsu.edu> wrote:

[Quoted text hidden]

---

**Ettlinger, Alan** <Alan.Ettlinger@nypa.gov>  
To: Ken Dulaney <ken\_dulaney@ncsu.edu>  
Cc: "Darvishi, Atena" <Atena.Darvishi@nypa.gov>

Wed, Dec 6, 2017 at 2:48 PM

Atena is out on business we will get back to you asap

---

**From:** Ken Dulaney [mailto:ken\_dulaney@ncsu.edu]  
**Sent:** Wednesday, December 6, 2017 2:45 PM

To: Ettliger, Alan <Alan.Ettliger@nypa.gov>; Darvishi, Atena <Atena.Darvishi@nypa.gov>

Subject: [EXTERNAL]Re: FREEDM: IAB Vote, CREDENCE Webinar Invite, No IAB Call on 12/7

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**NYPA ALERT:** This is an external email. Use caution before clicking attachments or links. See below for more.

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---

**Arnie de Castro** <Arnie.deCastro@sas.com>

Wed, Dec 6, 2017 at 3:50 PM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Yes to NYPA request.

Sent from my iPhone

On Dec 6, 2017, at 2:46 PM, Ken Dulaney <ken\_dulaney@ncsu.edu> wrote:

**EXTERNAL**

[Quoted text hidden]

---

**Giuseppe.Gatti@wicor.com** <Giuseppe.Gatti@wicor.com>

Thu, Dec 7, 2017 at 4:44 AM

To: Ken Dulaney <ken\_dulaney@ncsu.edu>

Cc: Adam Gregory <Adam.gregory@pos-en.com>, "叶田玲彦 / KANOUDA, AKIHIKO" <akihiko.kanoda.zz@hitachi.com>, "Ettliger, Alan" <Alan.Ettliger@nypa.gov>, "Reznack, Andrew" <andrew.reznack@itron.com>, Arnie de Castro <Arnie.deCastro@sas.com>, "Darvishi, Atena" <Atena.Darvishi@nypa.gov>, "Rogers, Bruce" <brogers@epri.com>, Daniel Constantine Gregory <dan.gregory@pos-en.com>, "Sanchez, Francisco" <Francisco.Sanchez@fpl.com>, Franck RAGOT <franck.ragot@total.com>, geraldonojima@eaton.com, Giuseppe Simioli <giuseppe.simioli@wicor.com>, greg.myers@sensus.com, Heping Dai <heping.dai@huawei.com>, Iqbal Husain <ihusain2@ncsu.edu>, Iulian Nistor <iulian.nistor@us.abb.com>, "Jae Lee (TEMA TTC)" <jae.lee@toyota.com>, "Gregory, Jared" <jared.gregory@xyleminc.com>, "Gajda, John" <john.gajda@duke-energy.com>, John Shea <john.shea@schneider-electric.com>, Kenny Aron <kenneth.aron@schneider-electric.com>, "Chen, Ke" <Ke.Chen@duke-energy.com>, "Dickerson, Paula" <Paula.Dickerson@sensus.com>, Paul Gregory <paul.gregory@pos-en.com>, "Taylor, Paul J" <Paul.j.Taylor@fpl.com>, "Liu, Peter (TIC)" <Peter.Liu@toshiba.com>, "Yanniello, Robert" <RobertYanniello@eaton.com>, "Critelli, Ron" <Ron.Critelli@fpl.com>, Sandeep Bala <sandeep.bala@us.abb.com>, "Stella, Stephen" <sstella@epri.com>, "Driscoll, Tim" <Tim.driscoll@itron.com>, Tim Fairchild <Tim.Fairchild@sas.com>, Wenté ZENG <wente.zeng@total.com>, yoichi.morishima@toshiba.co.jp, yuichi.mabuchi.wz@hitachi.com, joseph.elhayek@wicor.com

Dear Ken,  
the answer by Weidmann is YES.

Kind regards - Cordiali saluti - Freundliche Grüsse

Giuseppe Gatti  
Manager Engineering Consulting EA  
Engineering Chiasso

Weidmann Electrical Technology AG  
[Corso San Gottardo 25](#)  
6830 Chiasso, Switzerland

TD +41 91 695 00 80  
FD +41 91 695 00 89

M +39 334 766 1497  
giuseppe.gatti@wicor.com

visit our new website [www.weidmann-electrical.com](http://www.weidmann-electrical.com)

From: Ken Dulaney <[ken\\_dulaney@ncsu.edu](mailto:ken_dulaney@ncsu.edu)>  
To: Iulian Nistor <[iulian.nistor@us.abb.com](mailto:iulian.nistor@us.abb.com)>, Sandeep Bala <[sandeep.bala@us.abb.com](mailto:sandeep.bala@us.abb.com)>, "Gajda, John" <[john.gajda@duke-energy.com](mailto:john.gajda@duke-energy.com)>, "Chen, Ke" <[Ke.Chen@duke-energy.com](mailto:Ke.Chen@duke-energy.com)>, [geraldonjima@eaton.com](mailto:geraldonjima@eaton.com), "Yanniello, Robert" <[RobertYanniello@eaton.com](mailto:RobertYanniello@eaton.com)>, "Stella, Stephen" <[sstella@epri.com](mailto:ssstella@epri.com)>, "Rogers, Bruce" <[brogers@epri.com](mailto:brogers@epri.com)>, "Sanchez, Francisco" <[Francisco.Sanchez@fpl.com](mailto:Francisco.Sanchez@fpl.com)>, "Taylor, Paul J" <[Paul.j.Taylor@fpl.com](mailto:Paul.j.Taylor@fpl.com)>, "Critelli, Ron" <[Ron.Critelli@fpl.com](mailto:Ron.Critelli@fpl.com)>, 叶田玲彦 / KANOUDA, AKIHIKO <[akihiko.kanoda.zz@hitachi.com](mailto:akihiko.kanoda.zz@hitachi.com)>, [yuichi.mabuchi.wz@hitachi.com](mailto:yuichi.mabuchi.wz@hitachi.com), [Heping Dai <Heping.Dai@huawei.com>](mailto:Heping.Dai@huawei.com), "Reznack, Andrew" <[andrew.reznack@itron.com](mailto:andrew.reznack@itron.com)>, "Driscoll, Tim" <[Tim.driscoll@itron.com](mailto:Tim.driscoll@itron.com)>, "Ettlinger, Alan" <[Alan.Ettlinger@nypa.gov](mailto:Alan.Ettlinger@nypa.gov)>, "Darvishi, Atena" <[Atena.Darvishi@nypa.gov](mailto:Atena.Darvishi@nypa.gov)>, Adam Gregory <[Adam.gregory@pos-en.com](mailto:Adam.gregory@pos-en.com)>, Daniel Constantine Gregory <[dan.gregory@pos-en.com](mailto:dan.gregory@pos-en.com)>, Paul Gregory <[paul.gregory@pos-en.com](mailto:paul.gregory@pos-en.com)>, Arnie de Castro <[Arnie.deCastro@sas.com](mailto:Arnie.deCastro@sas.com)>, Tim Fairchild <[Tim.Fairchild@sas.com](mailto:Tim.Fairchild@sas.com)>, John Shea <[john.shea@schneider-electric.com](mailto:john.shea@schneider-electric.com)>, Kenny Aron <[kenneth.aron@schneider-electric.com](mailto:kenneth.aron@schneider-electric.com)>, [greg.myers@sensus.com](mailto:greg.myers@sensus.com), "Gregory, Jared" <[jared.gregory@xylem.com](mailto:jared.gregory@xylem.com)>, "Dickerson, Paula" <[Paula.Dickerson@sensus.com](mailto:Paula.Dickerson@sensus.com)>, [yoichi.morishima@toshiba.co.jp](mailto:yoichi.morishima@toshiba.co.jp), "Liu, Peter (TIC)" <[Peter.Liu@toshiba.com](mailto:Peter.Liu@toshiba.com)>, Wente ZENG <[wente.zeng@total.com](mailto:wente.zeng@total.com)>, Franck RAGOT <[franck.ragot@total.com](mailto:franck.ragot@total.com)>, "Jae Lee (TEMA TTC)" <[jae.lee@toyota.com](mailto:jae.lee@toyota.com)>, [giuseppe.gatti@wicor.com](mailto:giuseppe.gatti@wicor.com), [Giuseppe Simioli <Giuseppe.Simioli@wicor.com>](mailto:Giuseppe.Simioli@wicor.com)  
Cc: Iqbal Husain <[ihusain2@ncsu.edu](mailto:ihusain2@ncsu.edu)>  
Date: 04/12/2017 17:22  
Subject: FREEDM: IAB Vote, CREENCE Webinar Invite, No IAB Call on 12/7

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3. Hopefully, you noticed that the CREENCE call overlaps somewhat with our regular IAB monthly call. Since we'll be face to face next week, we will cancel this call on Thursday. Now you should be free to join the CREENCE call if you can!

Let me know if you have any questions.

Ken Dulaney, PE  
Director of Industry and Innovation  
FREEDM Systems Center  
[\(919\) 513-2996](tel:9195132996) Office  
[\(919\) 645-8085](tel:9196458085) Mobile

Visit us at Distributech in San Antonio on January 22-25!  
[attachment "FREEDM Fellowship SOW - NYPA Control using FACTS and Wind.pdf" deleted by Giuseppe Gatti/CHECO/WETAG/Wicor]  
[attachment "CREDENCE Brochure 2017.pdf" deleted by Giuseppe Gatti/CHECO/WETAG/Wicor]