

Power Engineering Society + Power Electronics Society

Active Report

Meeting date	Report/Comment
25/07/2013	<p>2 DLs in PES/PELS were arranged. One of them was supported by NZ North Section for Prof. Ralph Kennel. The other one by Prof. Henry Louie was supported by Power systems industry body EEA and IEEE PES HQ.</p> <ul style="list-style-type: none"> Distinguished Lecture: Title: Predictive Control - the Powerful Method to Control Power Converters and Drives in the Future Speaker: Prof. Ralph Kennel (Germany) Date: Monday 27th May 2013 Time: 5 – 6 pm Attendance: 20 IEEE members, 12 Guest Members Distinguished Lecture: Time: 6:00 - 7:00 pm Date: Tuesday, 18th June 2013 Title: Energy, Engineering, and Social Justice Speaker: Prof. Henry Louie Attendance: 29 (5 Non-IEEE Members) PowerCon Audit completed. Overall Surplus of 32.8K. The MoU that was signed was for 20% of this (upto a Maximum Limited) to be given back to IEEE NZ. Section needs to decide how to associate this amount with PES/PELS Chapter Account. 2013 CC Meeting will be held in Bangalore (now re-named as Bengaluru) on Saturday 9th November 2013 IEEE Power and Energy Society will be supporting the visiting IEEE PES delegate as per the following reimbursement policy USD700 + USD50 (taxi-fares + miscellaneous – deduction of USD200) + USD300 accommodation = USD1050 What this means is that section will have to support air-travel expense greater that USD \$700 IEEE PES High Performing Chapter Program - 2012 Results: IEEE PES NZ North was succesful to receive USD \$680 for its 2012 activities.

Comments

Meeting date	Report/Comment
23/05/2013	<p>The third DL for PES/PELS Chapter will be held held. This PES DL talk was made possible by the expert being sponsored by the US Consulate General, Auckland.</p> <ul style="list-style-type: none"> Distinguished Lecture: Title: Predictive Control - the Powerful Method to Control Power Converters and Drives in the Future Speaker: Prof. Ralph Kennel (Germany) Date: Monday 27th May 2013 Time: 5 – 6 pm <p>PowerCon accounts are currently being audited. We will getting a profit and the proceeds will be returned back to the Section. Hopefully before next meeting details will be known</p> <p>Another DL from PES likely in the third week of June 2013. Nirmal will be getting Power Systems industry support to make this happen. No requirements of Section Funding.</p>

Meeting date	Report/Comment
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28/03/2013	<p>The second DL for PES/PELS Chapter held. This PES DL talk was made possible by the expert being sponsored by the US Consulate General, Auckland.</p> <ul style="list-style-type: none"> Distinguished Lecture: Date/Time: 3rd April 2013 Title :Can Green Cars Clean up our Environment? Speaker: <i>Andrew Saul, Founder & CEO Genovation Cars, Inc.</i> The talk was were well attended by about 25 people.
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IEEE PES DL Prof. George Gross Lecture 11 Feb 2013

Seminar Slides

IEEE PES POWERCON 2012 (30 Oct - 2 Nov) Keynotes

Wednesday, 31 October: 8:30 - 10am Plenary presentations

Wednesday, 31 October: 10:30 - 12:30pm Plenary presentations

Thursday, 1 November: 8:30 - 10am Plenary presentations

Friday , 2 November: 9:00 - 10am Plenary presentation

Comments

Meeting date	Report/Comment
23/11/2012	<ul style="list-style-type: none"> Distinguished Lecture: Date/Time: 2nd November 2012 Title : Power System Protection Schemes in Modern Power Systems with Distributed Generation Speaker: <i>Melha B. Selak</i> Administration Meeting: IEEE PES North Section committee met during the NZ NORTH SEction Strategic Meeting held on 10th November. Activities for next year 2013 was planned. Awarding a PES NZ North Engineer is being developed. The PES Student Branch had a fantastic Student/WIE/GOLD event during PowerCon2012. The PES Chapter Chair Meliha Selak was very pleased. . POWERCON2012 good success Good response from the attendees with regards to PowerCon2012 www.powercon2012.com Technical Papers will appear in IEEEExplore early Jan-Feb 2013 2 Student BEst Paper award and 2 Student Best presentation awardees selected Finance Reconciliation happening. Hopefully should be over before Christmas. If not it will be settled early next year. WE still are awaiting a couple of Sponsorship money. Also some more payments need to be resolved. Profit is expected for sure. The exact amount will be known after reconciliation.

Active Report

Events

Past Reports

Comments

Meeting date	Report/Comment
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27/09/2012	<ul style="list-style-type: none"> Distinguished Lecture: Date/Time: TBD (November first Week) Title : Power System Protection Schemes in Modern Power Systems with Distributed Generation Speaker: <i>Melha B. Selak</i> <i>Melha B. Selak</i> is a Specialist Engineer in Electrical Power Systems with BC Hydro. She has an Electrical Engineering degree from the University of Sarajevo and has over 30 years of experience in various aspects of power systems engineering including utility protection, research & development, project management and consulting on international projects. Prior to joining BC Hydro in 2000, she worked as a research engineer in the Power System Group at the University of British Columbia on Real-Time Power System Simulator in connection with EMTPT. Her technical activities include power system protection and control applications, power system analysis, evaluations and interconnection studies for the various plants connecting to the power system, as well as development of the protection guidelines. She is a registered professional engineer in the Province of British Columbia and she is a senior member of IEEE. Meliha is a member of the IEEE Power & Energy Society (PES) Governing Board and she is currently serving as the Vice President for Chapters. Also, she is a corresponding member of the IEEE Power System Relay Committee (PSRC). She has written numerous technical reports and papers on the power system subjects and she is also a paper reviewer. Meliha is a distinguished lecturer of IEEE PES. Administration: IEEE PES North Section has formed a committee structure for 2012 with Chair, Vice-Chair, Secretary and PES Student Branch Chair positions. The PES Student Branch has been approved. It will form part of affinity group of AU SB but mostly of Postgraduate PES members. Progress on POWERCON2012 sponsored by PES. Professional Conference Organizer is Event Smart. The dates are October 30- Nov 2 2012. The theme of the conference is "Towards Smarter Resilient and Economic Electricity System". The conference will feature plenary sessions, tutorials, paper presentations, poster session, trade exhibits, companion program, site visit and a Student/Graduate of Last Decade (GOLD)/Women In Engineering (WIE) program. The local organizing committee involves all the 3 PES chapters from NZ (North, Central and South) along with industry bodies like EEA and CIGRE-NZ. 4 Universities will be involved (Auckland University, AUT, Canterbury University and Victoria). About 220 International registration completed. Likely to have some more. The Local Student /WIE/GOLD program has been finalized. It is being publicized and we have planned for 70 people for that event. Support from IEEE NZN Section to be explored www.powercon2012.com
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Meeting date	Report/Comment
19/07/2012	<ol style="list-style-type: none"> Major activities so far (since Feb 2012) and major planned activities for 2012 <ul style="list-style-type: none"> Distinguished Lecture: Date/Time: Monday, 18th June 2012 6:30 - 8:30 pm Title : Renewable Energy: the Case for Photovoltaics Speaker: Prof. Miroslav Begovic Miroslav M. Begovic is Professor in the School of Electrical and Computer Engineering and an affiliated faculty member of the Brook Byers Institute for Sustainable Systems at Georgia Tech. He Dr. Begovic's research interests are in monitoring, analysis, and control of power systems, as well as development and applications of renewable and sustainable energy systems. He is President-elect of the IEEE PES has been a member of their IEEE PES Power System Relaying Committee for almost 20 years Dr. Begovic is Chair of the Electric Energy Group in the School of ECE at Georgia Institute of Technology. Administration: IEEE PES North Section has formed a committee structure for 2012 with Chair, Vice-Chair, Secretary and PES Student Branch Chair positions. These members have been active with the Local Organizing Committee for PowerCon 2012. Progress on Conferences technically sponsored or sponsored by PES. POWERCON 2012 (fully sponsored by PES) Professional Conference Organizer is Event Smart. The dates are October 30- Nov 2 2012. The theme of the conference is "Towards Smarter Resilient and Economic Electricity System". The conference will feature plenary sessions, tutorials, paper presentations, poster session, trade exhibits, companion program, site visit and a Student/Graduate of Last Decade (GOLD)/Women In Engineering (WIE) program. The local organizing committee involves all the 3 PES chapters from NZ (North, Central and South) along with industry bodies like EEA and CIGRE-NZ. 4 Universities will be involved (Auckland University, AUT, Canterbury University and Victoria). Received about 350+ full papers for reviewing. Reviewing process is just being completed and the review results will be released in a day or two. The registration, hotel options, tutorial offerings, will all be made available for registering in the second week of July 2012. www.powercon2012.com Events held or going to be held using PES DL Since most of the office bearers will be busy with Powercon 2012 we are not availing our DL budget this year. The committee will focus more on establishing and setting up activities for the NZ North PES student branches

Meeting date	Report/Comment
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29/09/2011

- The IEEE PES Region 10 Chapter Chairs Meeting (CC Meeting) for PES will be held 12th Nov Perth, Western Australia. US\$200 for registration is expected from the Section. Nirmal will be putting a request for this towards the Section executive next month. Additional expenses will be partly paid by the Power and Energy Society and the rest has to be picked up by the attending delegate. Nirmal will be attending to represent our Section's PES Chapter.
- The 2012 Powercon MoU is to be with IEEE New Zealand North Section . Concentration banking will be setup for this Conference with all financial liability being undertaken completely by IEEE PES society. The General Chair and Treasurer will be able to get full financial indemnity to operate the Concentration account. The share of profits, if any, will flow into the section account at the end to be used for future use for PES Society activities.
- NZ North EEE PES/PELS Chapter is in the process of forming a full-committee (Vice-Chair, Secretary/Treasurer) before the end of this year. Active volunteers for various positions are being contacted and their long term commitments established. A PES/PELS Student Chapter formation is also envisaged. A Postgraduate student Waqar Qureshi has agreed to volunteer as the Chair of the PES Student Branch and also serve as the Secretary for the PES/PELS Chapter. An active Web presence will also happen in parallel with these developments.
- "Power Quality in the context of Smart Grids" by Prof Paulo Ribeiro to be held 3-4pm on 7th October 2011 in the ECE Briefing room, 38 Princes street, University of Auckland

Meeting date

Report/Comment

21/07/2011

- The IEEE PES Region 10 Chapter Chairs Meeting (CC Meeting) for PES will be held 12th Nov Perth, Western Australia. US\$200 for registration is expected from the Section. Nirmal will be putting a request for this towards the Section executive next month. Additional expenses will be partly paid by the Power and Energy Society and the rest has to be picked up by the attending delegate. Nirmal will be attending to represent our Section's PES Chapter.
- The 2012 Powercon planning is going on in full swing. Quotes from 4 PCO's are being assessed. This is being done in consultation with IEEE PES executives. 3 Locations have been shortlisted. Within a few weeks time this should be finalized. The dates are likely to be the last week of October 2012. IEEE PES New Zealand North Section will be the lead technical chapter organizing this. We will be collaborating actively with IEEE PES South and Central. 15 months lead time is available. Concentration banking will be actioned especially for this Conference with all financial liability being undertaken completely by IEEE PES society. The General Chair and Treasurer will be able to get full financial indemnity to operate the Concentration account. The share of profits, if any, will flow into the section account at the end to be used for future use for PES Society activities.
- PELS Society have approved US \$1000 for this year's activities. One of the significant events flagged has been part of the PES/PELS technical programme during the recently concluded R10SC Student/GOLD/WIE Congress facilitated by our section. A proportion of funding will be passed onto the Auckland University Student Branch which facilitated opportunity to showcase PES and PELS Technical Chapter activities. Several Publications on SmartGrid and Women in Power were circulated and PES lapels were given to PES members.
- Lectures and activities held under PES/PELS Chapter after our last meeting are listed as under: " Computer Applications in Power Systems, Prof. Noel Schulz, IEEE PES President Elect, Paslay Professor of Electrical & Computer Engineering, Kansas State University, Manhattan, Kansas, USA, 21 June 2011, 6-7:30pm. About 25 people attended. She is currently the IEEE PES President Elect (2010-11). It was very well received. Her visit was sponsored by EEA and the Department facilitated refreshments. No funding has incurred from this year's PES/PELS budget.
- Emerging Technology PES Presence in IEEE R10 Student/GOLD/WIE Congress (<http://r10sc.auckland.ac.nz/>) July 7-10, Auckland, New Zealand
 - A Power and Energy Emerging Technology session will be delivered on July 8, 2011 ([Attached program lists details](#))
 - 1)Integrating renewable energy into the electricity network--issues and solutions
Dustin Murdoch BE ME Wisc-Mad
ABB New Zealand (R10SC Principal Sponsor)
 - 2)Modern monitoring technologies for electrical integrity of generator plant assets at Mighty River
Power
Anirban Dey BE NIT Silchar, MBA Baroda, CIGRE
Mighty River Power (R10SC Diamond Sponsor)
 - 3)Trends in energy technology
Gareth Williams BE Auckland
Vector
 - 4)Appliances on the smart grid
Jeremy Stott BE(Hons) Auck
Fisher & Paykel Appliances
 - 5)IEEE and smart grid
Dr Nirmal Nair BE Baroda, ME IISc, PhD Texas A&M, SMIEEE CIGRE
The University of Auckland
- PES and PELS Publicity/Recruitment Initiative in IEEE R10 Student/GOLD/WIE Congress (<http://r10sc.auckland.ac.nz/>) July 7-10, Auckland, New Zealand
IEEE Technical Societies Breakout Session (July 9, 13:30pm)
About PES and PELS Society: Dr Nirmal Nair BE Baroda, ME IISc, PhD Texas A&M, SMIEEE CIGRE
- "A Smart Grid Application: From the Vehicle-to-Grid (V2G) Conceptual Design to its Implementation" By George Gross has been floated by Dean Sharafi (our R10 Area South Chapter Rep). Dates are yet to be finalized and it is expected to be in Nov-Dec. Possibility for funding here in New Zealand is being looked into to support internal stay and travel if it materializes.
- NZ North EEE PES/PELS Chapter is in the process of forming a full-committee (Vice-Chair, Secretary/Treasurer) before the end of this year. Active volunteers for various positions are being contacted and their long term commitments established. A PES/PELS Student Chapter formation is also envisaged. An active Web presence will also happen in parallel with these developments.
- "Transmission Tomorrow - The future of the National Grid" by Dr. Patrick Strange arranged jointly by IEEE, IET, IPENZ, EEA and Transpower to be held 6:30pm on 21st July 2011.

Meeting date

Report/Comment

19/05/2011	<ul style="list-style-type: none"> • IEEE PowerCon 2012 has now been shifted to Auckland because of the inavailability of Christchurch venue. Nirmal is going through the process of finalizing the PCO and the venue. This conference will be entirely financially underwritten by IEEE PES Society. • A concentration banking account will need to be opened for the Conference with the General Chair and Treasurer given full financial indemnity. The profit (if any) is planned to be routed through to the Section Account. More details during next meeting. • The IEEE PES Region 10 Chapter Chairs Meeting (CC Meeting) of R10 chapter chairs this year will be in November and the most likely venue will be Perth, Western Australia. Nirmal will be attending to represent our Section. • The IEEE PES student chapter is being explored by a bunch of Power Systems postgrads. Hopefully something concrete is likely to emerge by the end of this year. • Funding opportunity for PELS(USD 1000) is being put together for an Emerging Technology track to coincide around the R10SC Student/GOLD/WIE congress period. • A possibility of a DL in Nov has been flagged by R10 PES representative. Nirmal is coordinating with PES South and Central to get funding for this event from the Industry.
Meeting date	Report/Comment
31/03/2011	<ul style="list-style-type: none"> • Smart Grids: A Complex Network View DL on 24th March. Meeting Report filed. 50 participants, 12 IEEE members. Expense claim to be still put together • PES/PELS Chapter Vice-chair has been agreed by Dr. Lie. • IEEE PES Student chapter being explored. Got several students to sign up for the free PES chapter promotional drive • Funding opportunity for activities in both PES (upto USD 500) and PELS (USD 1000) exist. I will be exploring to get them for activities that is high profile to coincide around the R10SC Student/GOLD/WIE congress period.
Meeting date	Report/Comment
2/12/2010	<p>Nirmal Reports:</p> <ul style="list-style-type: none"> • I went to HangZhou China for publicity trip for POWERCON 2012 to be held in Christchurch. IEEE PES will be the major financial sponsor and underwriter for this event. • The new PES Chapter Representative for South is Dean Sharafi. He will be taking up this position starting 2011. He has initiated a DL possibility for April 2011. It is yet to be finalized. • New Zealand Central has just successful petitioned for a PES Chapter. Neville has been notified on 28 September 2010 it has been approved. Chair is: Dr. Ramesh Rayudu • Nirmal will be taking over as the 2011 IEEE NZ North PES/PELS joint Chapter Chair. Patrick will be moving over to volunteer as the Treasurer /Secretary of the IEEE NZ North Section.
Meeting date	Report/Comment
14/10/2010	<p>PowerCon 2012 has been approved to be held in Christchurch. Our Chapter will be involved in it. Nirmal is going to PowerCon 2010 in China for publicity towards the 2012 event, as part of the organizing committee</p>
Meeting date	Report/Comment

12/08/2010	<p>1) The following IEEE DLP went smoothly: Topic Title: SmartGrids and Demand Side Management Speakers: Dr. Bruno Meyer Time: 13:00 to 16:30 hours (15 minutes refreshment break in between) Date: Monday, 12th July 2010 Venue: Lecture Theatre MLT1/ (303 G23), Science Centre, The University of Auckland, 38 Princes Street, Auckland</p> <p>About 37 people attended mostly from the Power system industry. Had some live discussions during the workshop, and Dr Nirmal Nair summarised the talk in the end.</p> <p>2) Associate Professor Subhas Mukhopadhyay delivered another IEEE DLP seminar when he was up for a Ph.D oral exam at the the University of Auckland: Title: Wireless Sensors Network Based Safe Home to Care Elderly People Time: 2-3 pm Date: Wednesday, 11 August 2010 Venue: ECE Seminar Room, Room 303-257 building 303, Auckland University, Symonds Street.</p> <p>About 25 people attended the seminar. The topic attracted a lot interested and questions.</p>
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Meeting date	Report/Comment
27/05/2010	<p>1) Prof Neville Watson coordinated the DL program by Bruno Meyer on Smart Grid, approximate time table is: Brisbane (1/2 day workshop) 9 - 11 July (Workshop 10 July?) Auckland (1/2 day workshop) 12 - 13 July (Workshop 12 July?) Wellington (1/2 day workshop) 13 - 14 July (Workshop 13 July?) Christchurch (1/2 day workshop) 15 - 17 July (Workshop 16 July?) It has agreed to update the travel to business class. EPECentre will purchase the ticket and then invoice the contributions from the companies. Our chapter only needs to cover the local cost as planned. 2) Application to host IEEE Power Technology Conference 2012 (PowerCon '12) has been successful. It will be held in Christchurch some time Oct 2012. </p>

Meeting date	Report/Comment
25/03/2010	NZ North PES/PELS Chair will be Patrick Hu in 2010

Meeting date	Report/Comment
27/11/2009	<p>1. The DL lecture by Prof Enrique Archa is confirmed to be on Monday 14 Dec 09 (a change from 16Dec).</p> <p>2. A full day workshop on PLECS (a power electronics simulation software package) is to be organised 10:00am-3:00pm, Friday, 19 Feb 2010 UG4 (Undergraduate Laboratory 4). Dr John Schönberger, one of the original program writer of the PLECS will kindly come to run the workshop form Zurich.</p>

Comments

Meeting date	Report/Comment
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08/10/2009	<p>1. It has been confirmed that PES is unable to sponsor the DLP program by Prof Enrique Acha we proposed early this year. Here's a recent reply from Prof Lalit Goel who was coordinating the program: I regret to have to bring you some bad news - IEEE PES is unable to sponsor DLP Enrique Acha for the DLP series in your region. I am attaching the communication from PES, which should serve to explain their rationale in rejecting our request. I think PES HQ prefers - increasingly - that we should employ the DLs from our own region for the DLP program rather than get somebody from other regions. We can bring up this matter for discussion at the upcoming chapter chairs meeting in KL on Oct 24 and 25, 2009.</p> <p>Regards, Lalit Goel, PhD Office of Admissions & Financial Aid Nanyang Technological University Singapore 639798</p> <p>2. The good news is now there is no need to do a new petition to split the Joint NZ North /South PES/PLES chapter. The splitting has been approved, and we will have our separate PES/PELS chapter.</p> <p>3. A latest communication from R10 exploring alternate funding support form sections to make the DL happen. The communication received yesterday is as under: Dear Chapter Chairs, I have been discussing this issue with Dr Enrique Acha who is still keen on making the DLP presentations in R10. He tells me that he is willing to contribute, from one of his research accounts towards his airfare from say Glasgow-Singapore and Christchurch-Glasgow. Since the DLP speaker has generously offered to support part of his transportation expenses, now it is up to us to try and generate the rest of the transportation expenses (local expenses will in any case have to be borne by the local host chapter) to make this trip a reality. May I suggest that all the 6 chapters chip in about USD500 each, so that we can generate a total of USD3000.00 which I think would be enough to cover the additional segments of Singapore-Bangkok-Hong Kong-Brisbane-Auckland-Christchurch (if the amount is less we will need a smaller contribution from each chapter). 1. Singapore on Monday 7th December 2. Bangkok on Wednesday 9th December 3. Hong Kong on Friday 11th December 4. Brisbane on Monday 14th December 5. Auckland on Wednesday 16th December 7. Christchurch on Friday 18th December Can I have your thoughts on my proposal by this Friday, as time is short and we need to give the green signal to Dr Acha so that he can make the necessary travel arrangements? Best regards, Lalit</p> <p>4. Patrick would like to ask the committee if USD 500 support can be extended by our Section to make this DL happen?</p>
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Comments

Meeting date	Report/Comment
06/08/2009	<p>1. Patrick's apology for not being able to attend the coming committee meeting. He needs to attend an event organised by Engineering without borders.</p> <p>2. A PES DL program has been arranged for early Dec, but PES is considering to cut the budget so it is on hold now. Will update you if there is any further development.</p> <p>3. Apart from that, there is nothing to report from PES/PELS chapter from the last meeting.</p>

Comments

Meeting date	Comment
29/05/2009	First meeting for PES/PELS arranged on 11 June, 2009

Events

Date	Event/Title	Location	Speaker(s)	Comment
11 June, 2009: 3-4pm	Voltage Quality-Now and in the Future	Rm 303.257, ECE Briefing Room, Science Centre, UoA	Assoc.Prof. Neville Watson	ECE Dept, Univ of Canterbury

Comments

Meeting date	Comment
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23/04/2009	<ol style="list-style-type: none"> 1. Will try to organize the three planned meetings. 2. And another task is to continue collecting signatures for splitting up PES/PELS into NZ North and South Chapters.
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Comments

Meeting date	Comment
27/11/2008	<ol style="list-style-type: none"> 1. Prof Anjan Bose ran an IEEE DL workshop (two hours talk plus one hour round table discussion) on 'The Evolution of Control and Control Centres for the Smart Transmission Grid', 1-4pm, 24Nov 08 in Auckland, about 30 people attended the workshop. He also delivered the same talk (reduced to a one hour seminar) on 25 Nov 08 in Transpower Ltd, Wellington. The seminar attracted about 120 attendants so finally divided in two streams (9:30-10:30am and 12-1pm). Patrick was invited to accompany Prof Bose to Wellington to help organise the seminar and meet people there. The seminar was very well received and stimulated a lot of interests. Transpower sponsored both Prof Bose's and Patrick Hu's flights (Auckland-Wellington return) and accommodation. 2. All four PES/PELS chapter activities in North Section this year, including this recent DLP in Auckland and Wellington, now have been reported online from:http://ewh.ieee.org/cgi-bin/l31/ReportForm.plWill contact NZ South to finish reporting the activities there. 3. Six PES/PELS full members have signed the petition form in order to form a new NZ North PES/PELS Chapter, another six signatures are still needed.
9/10/2008	<ol style="list-style-type: none"> 1. PES/PELS ran a seminar together with ECE Dept on 2nd Oct 08. 15 people attended the seminar and 10 were IEEE members. The topic was 'Experience in Working for System Operator/Electricity Market' given by Dr Bhujanga Chakrabarti of Transpower Ltd. Have just done the on-line reporting (Form 31) from IEEE website. 2. Have contacted A/P Neville Watson from Canterbury Uni many times to arrange a seminar by him, but we couldn't find a suitable time. He may do it when he comes up for a Ph.D oral examination end of this year or early next year. This will also help to reduce the cost involved. 3. The date for Prof Anjan Bose's DL lecture has been confirmed: Monday 24 Nov 08. Transpower Ltd and Canterbury Uni both showed strong interest to have Prof Bose there, but because Prof Bose's time is very constrained he can only give the talk in Auckland. We are considering setting up a video conference to cover three venues. 4. The petition for forming a new PES/PELS (North Section only) is in progress.

Events

Date	Event /Title	Location	Speaker (s)	Comment
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