Terminology

Trimester: IEEE 802 LMSC financial year naturally splits into three four-month periods aligned with the sessions: January–April, May – August, September – December. For budgeting purposes, these are referred to as trimesters, with shorthand of T1, T2, T3.

Forecast: first budget developed far in advance by the Executive Secretary and the Meeting Administrator, usually from the signed contract numbers.

Estimate: budget updated during the session, usually on a daily basis.

Actual: the final budget once all the have been finalized.
## 2017 T1 Session Results Actual

<table>
<thead>
<tr>
<th>Session Result</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Income</td>
<td>$384,012.88</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>-$36,450.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$398,158.10</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$50,595.22</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$50,595.22</td>
</tr>
</tbody>
</table>
# 2017 T2 Session Results Actual

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Session Income</td>
<td>$371,045.65</td>
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<tr>
<td>NNA Venue Setaside</td>
<td>$0.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$550,675.07</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$179,629.42</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$179,629.42</td>
</tr>
<tr>
<td>Total NNA Venue Setaside for year</td>
<td>$72,350.00</td>
</tr>
<tr>
<td>Session Surplus/Loss + Year NNA Setaside</td>
<td>-$107,279.42</td>
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</tbody>
</table>
## 2017 T3 Session Results Actual

<table>
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<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
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<tr>
<td>Session Income</td>
<td>$384,041.90</td>
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<td>NNA Venue Setaside</td>
<td>-$35,900.00</td>
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<tr>
<td>Session Expense</td>
<td>-$372,461.69</td>
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<tr>
<td>Session Surplus/Loss</td>
<td>-$24,319.79</td>
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<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$24,319.79</td>
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## 2017 Net Worth Change

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>March Session</td>
<td>($50,595.22)</td>
</tr>
<tr>
<td>July Session</td>
<td>($179,629.42)</td>
</tr>
<tr>
<td>November Session</td>
<td>($24,319.79)</td>
</tr>
<tr>
<td>Income Other</td>
<td>$4,735.70</td>
</tr>
<tr>
<td>NA Expense Other</td>
<td>($14,301.32)</td>
</tr>
<tr>
<td>NNA Expense Other</td>
<td>($2,799.86)</td>
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<tr>
<td>NNA Venue Setaside</td>
<td>$72,350.00</td>
</tr>
<tr>
<td>Change in Foreign Currency</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>($194,559.91)</td>
</tr>
</tbody>
</table>
# 2017 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$1,202,923.60</td>
<td>($84,480.63)</td>
<td>$1,118,442.97</td>
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<tr>
<td>NNA Reserve</td>
<td>$430,364.47</td>
<td>($110,079.28)</td>
<td>$320,285.19</td>
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<tr>
<td>General + NNA Reserve</td>
<td>$1,633,288.07</td>
<td>($194,559.91)</td>
<td>$1,438,728.16</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,635,288.07</td>
<td>($194,559.91)</td>
<td>$1,440,728.16</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,635,288.07</td>
<td>($194,559.91)</td>
<td>$1,440,728.16</td>
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2018 T1 Session Results Forecast

Forecast as of 2017-11-02

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<thead>
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<tr>
<td>Session Income</td>
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<td>NNA Venue Setaside</td>
<td>-$35,000.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$388,150.00</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$31,150.00</td>
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<tr>
<td>Sponsorships</td>
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<tr>
<td>Net Session Surplus/Loss</td>
<td>-$31,150.00</td>
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## 2018 T1 Session Results Estimate

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<thead>
<tr>
<th>NA Session Result</th>
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<tbody>
<tr>
<td>Session Income</td>
<td>$401,250.00</td>
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<tr>
<td>NNA Venue Setaside</td>
<td>-$36,650.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$464,937.50</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$100,337.50</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$100,337.50</td>
</tr>
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</table>

*Estimate as of 2018-02-28*
Future Financial Forecasts
2018 T2 Session Results Forecast
San Diego

<table>
<thead>
<tr>
<th>Session Result</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Income</td>
<td>$396,000.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>-$35,000.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$397,550.00</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$36,550.00</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$36,550.00</td>
</tr>
</tbody>
</table>

Forecast as of 2017-11-03
2018 T3 Session Results Forecast
Bangkok

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>NNA Session Result</td>
<td></td>
</tr>
<tr>
<td>Session Income</td>
<td>$333,500.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>$0.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$401,000.00</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$67,500.00</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$67,500.00</td>
</tr>
<tr>
<td>Total NNA Venue Setaside for year</td>
<td>$70,000.00</td>
</tr>
<tr>
<td>Session Surplus/Loss + Year NNA Setaside</td>
<td>$2,500.00</td>
</tr>
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</table>

Forecast as of 2017-11-03
# 2018 Net Worth Change Forecast

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>March Session</td>
<td>($100,337.50)</td>
</tr>
<tr>
<td>July Session</td>
<td>($36,550.00)</td>
</tr>
<tr>
<td>November Session</td>
<td>($67,500.00)</td>
</tr>
<tr>
<td>Income Other</td>
<td>$16,292.47</td>
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<tr>
<td>NA Expense Other</td>
<td>($7,000.00)</td>
</tr>
<tr>
<td>NNA Expense Other Other</td>
<td>$0.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>$71,650.00</td>
</tr>
<tr>
<td>Change in Foreign Currency</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>($123,445.03)</td>
</tr>
</tbody>
</table>
## 2018 Reserve Forecast

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$1,118,442.97</td>
<td>($127,595.03)</td>
<td>$990,847.94</td>
</tr>
<tr>
<td>NNA Reserve</td>
<td>$320,285.19</td>
<td>$4,150.00</td>
<td>$324,435.19</td>
</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$1,438,728.16</td>
<td>($123,445.03)</td>
<td>$1,315,283.13</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,440,728.16</td>
<td>($123,445.03)</td>
<td>$1,317,283.13</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,440,728.16</td>
<td>($123,445.03)</td>
<td>$1,317,283.13</td>
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</tbody>
</table>
# 2019 T1 Session Results Forecast

## Vancouver

<table>
<thead>
<tr>
<th>Session Result</th>
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</thead>
<tbody>
<tr>
<td>Session Income</td>
<td>$387,500.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>-$35,000.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$405,700.00</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$53,200.00</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$53,200.00</td>
</tr>
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</table>

Forecast as of 2017-11-03
# 2019 T2 Session Results Forecast Vienna

<table>
<thead>
<tr>
<th>NNA Session Result</th>
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</thead>
<tbody>
<tr>
<td>Session Income</td>
<td>$330,000.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>$0.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$779,250.00</td>
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<tr>
<td>Session Surplus/Loss</td>
<td>-$449,250.00</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$449,250.00</td>
</tr>
<tr>
<td>Total NNA Venue Setaside for year</td>
<td>$70,000.00</td>
</tr>
<tr>
<td>Session Surplus/Loss + Year NNA Setaside</td>
<td>-$379,250.00</td>
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Forecast as of 2017-11-09
2019 T3 Session Results Forecast
Waikoloa

<table>
<thead>
<tr>
<th>Session Result</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Session Income</td>
<td>$410,500.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>-$35,000.00</td>
</tr>
<tr>
<td>Session Expense</td>
<td>-$505,050.00</td>
</tr>
<tr>
<td>Session Surplus/Loss</td>
<td>-$129,550.00</td>
</tr>
<tr>
<td>Sponsorships</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Session Surplus/Loss</td>
<td>-$129,550.00</td>
</tr>
</tbody>
</table>

Forecast as of 2017-11-03
## 2019 Net Worth Change Forecast

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>March Session</td>
<td>($53,200.00)</td>
</tr>
<tr>
<td>July Session</td>
<td>($449,250.00)</td>
</tr>
<tr>
<td>November Session</td>
<td>($129,550.00)</td>
</tr>
<tr>
<td>Income Other</td>
<td>$6,600.00</td>
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<tr>
<td>NA Expense Other</td>
<td>($7,000.00)</td>
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<tr>
<td>NNA Expense Other</td>
<td>$0.00</td>
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<tr>
<td>NNA Venue Setaside</td>
<td>$70,000.00</td>
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<tr>
<td>Change in Foreign Currency</td>
<td>$0.00</td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>($562,400.00)</td>
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</tbody>
</table>
# 2019 Reserve Forecast

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$990,847.94</td>
<td>($183,150.00)</td>
<td>$807,697.94</td>
</tr>
<tr>
<td>NNA Reserve</td>
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<td>($379,250.00)</td>
<td>($54,814.81)</td>
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<tr>
<td>General + NNA Reserve</td>
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<td>($562,400.00)</td>
<td>$752,883.13</td>
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<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,317,283.13</td>
<td>($562,400.00)</td>
<td>$754,883.13</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,317,283.13</td>
<td>($562,400.00)</td>
<td>$754,883.13</td>
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</table>
# 2020 T3 Session Results Forecast

**Bangkok**

Forecast as of 2017-11-03

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
<tr>
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<td>Session Expense</td>
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<td>Session Surplus/Loss</td>
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<tr>
<td>Sponsorships</td>
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<tr>
<td>Net Session Surplus/Loss</td>
<td>-$85,398.00</td>
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Forecast as of 2017-11-03
### NA Sessions 2011-2019 Ranked

<table>
<thead>
<tr>
<th>Year</th>
<th>City</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-11</td>
<td>Waikoloa</td>
<td>($129,550.00)</td>
</tr>
<tr>
<td>2018-03</td>
<td>Chicago</td>
<td>($100,337.50)</td>
</tr>
<tr>
<td>2015-07</td>
<td>Waikoloa</td>
<td>($97,180.88)</td>
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<td>2012-03</td>
<td>Waikoloa</td>
<td>($80,777.00)</td>
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<tr>
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<td>Vancouver</td>
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<tr>
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<td>Vancouver</td>
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<td>San Francisco</td>
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<td>San Antonio</td>
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<td>San Diego</td>
<td>($36,550.00)</td>
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<td>Orlando</td>
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<td>2013-03</td>
<td>Orlando</td>
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<td>Dallas</td>
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<td>San Antonio</td>
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<td>San Antonio</td>
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<td>Atlanta</td>
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<td>Atlanta</td>
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<td>San Diego</td>
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<td>2015-11</td>
<td>Dallas</td>
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<td>2016-07</td>
<td>San Diego</td>
<td>$75,417.42</td>
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<td>2015-01</td>
<td>Atlanta</td>
<td>$115,343.86</td>
</tr>
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</table>

ec-18-0043-00-00EC 2018-03-05 Treasurer Report
## NNA Sessions 2011-2019 Ranked

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-07</td>
<td>Vienna</td>
<td>NNA</td>
<td>($449,250.00)</td>
</tr>
<tr>
<td>2014-03</td>
<td>Beijing</td>
<td>NNA</td>
<td>($403,975.75)</td>
</tr>
<tr>
<td>2017-07</td>
<td>Berlin</td>
<td>NNA</td>
<td>($179,629.42)</td>
</tr>
<tr>
<td>2018-11</td>
<td>Bangkok</td>
<td>NNA</td>
<td>($67,500.00)</td>
</tr>
<tr>
<td>2015-03</td>
<td>Berlin</td>
<td>NNA</td>
<td>($14,481.19)</td>
</tr>
<tr>
<td>2016-03</td>
<td>Macao</td>
<td>NNA</td>
<td>$6,130.98</td>
</tr>
<tr>
<td>2011-03</td>
<td>Singapore</td>
<td>NNA</td>
<td>$13,748.54</td>
</tr>
<tr>
<td>2013-07</td>
<td>Geneva</td>
<td>NNA</td>
<td>$118,865.59</td>
</tr>
</tbody>
</table>
## Years 2011-2019

<table>
<thead>
<tr>
<th>Year</th>
<th>Surplus / Deficit</th>
<th>Cumulative Surplus / Deficit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>$46,418.53</td>
<td>$46,418.53</td>
</tr>
<tr>
<td>2012</td>
<td>($7,730.82)</td>
<td>$38,687.71</td>
</tr>
<tr>
<td>2013</td>
<td>$223,835.43</td>
<td>$262,523.14</td>
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<tr>
<td>2014</td>
<td>($304,753.25)</td>
<td>($42,230.11)</td>
</tr>
<tr>
<td>2015</td>
<td>$274,070.71</td>
<td>$231,840.60</td>
</tr>
<tr>
<td>2016</td>
<td>$333,070.47</td>
<td>$564,911.07</td>
</tr>
<tr>
<td>2017</td>
<td>($194,559.91)</td>
<td>$370,351.16</td>
</tr>
<tr>
<td>2018 (forecast)</td>
<td>($123,445.03)</td>
<td>$246,906.13</td>
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<tr>
<td>2019 (forecast)</td>
<td>($562,400.00)</td>
<td>($315,493.87)</td>
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### Years Ranked

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>2019 (forecast)</td>
<td>($562,400.00)</td>
</tr>
<tr>
<td>2014</td>
<td>($304,753.25)</td>
</tr>
<tr>
<td>2017</td>
<td>($194,559.91)</td>
</tr>
<tr>
<td>2018 (forecast)</td>
<td>($123,445.03)</td>
</tr>
<tr>
<td>2012</td>
<td>($7,730.82)</td>
</tr>
<tr>
<td>2011</td>
<td>$46,418.53</td>
</tr>
<tr>
<td>2013</td>
<td>$223,835.43</td>
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<tr>
<td>2015</td>
<td>$274,070.71</td>
</tr>
<tr>
<td>2016</td>
<td>$333,070.47</td>
</tr>
</tbody>
</table>
Net Session Surplus / Deficit

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Total Reserve
Currency Exchange Rates
Currency Exchange Rates

Five of the next eight sessions are in non-US venues (November 2018 Bangkok, March 2019 Vancouver, July 2019 Vienna, July 2020 Montreal, November 2020 Bangkok)

The exact amount of the session forecasts that is local currency denominated is not known, but for estimating purposes the expenses for food & beverage, venue, staff rooms, infrastructure, social, and miscellaneous are considered to be in local currency. This underestimates the actual amount, in that some of networking, audio/visual, and meeting administration expenses would also be in local currency.

Roughly 12% of the session revenue and between 45% and 85% of the session expenses are in local currency.
Update Forecasts to Current (2018-02-27) Exchange Rates

Original session forecasts were made using currency exchange rates in effect as of the date of the forecast.

Exact currency exchange rate used to develop session forecasts has not yet been communicated to Treasurer.

The US Dollar (USD) has weakened ~5% against Thailand Bhat (THB) and Euro (EUR) in just the last three and a half months.
Net Session Surplus / Deficit
Updated to Current Exchange Rates
Total Reserve Updated to Current Exchange Rates

![Graph showing total reserve over time with estimates and forecasts for 2018 to 2020.](chart.png)
Future Exchange Rates

USD weakened 11% in 2017 against non-USD currencies.
Consensus is that the USD will further weaken 5% against non-USD currencies for the first half of 2018.
Crystal ball beyond that is cloudy; estimates range from further weakening to some recovery.
For purposes of this report, the USD is assumed to weaken 5% by the end of 2018, and then remain at that point through 2020.
Net Session Surplus / Deficit
Updated to Future Exchange Rates
Total Reserve Updated with Future Exchange Rates
Inflation
Inflation

Many of the venue contracts are inflation protected; the costs will not change regardless of inflation. The one notable exception is the Vienna venue contract; it is not inflation protected.

The service provider contracts are indexed to the Consumer Price Index (CPI) on a yearly basis.

Inflation in Europe, Canada, and the US is in the range of 1.5% to 2.0%, which is in line with the desired inflation rate of governments and central bankers. Such a low inflation rate, if sustained, would only minimally affect this forecast.
Uncommitted Reserve
Paid Deposits For Sessions After Trimester (Committed Reserves)
Uncommitted Reserve

[Graph showing the uncommitted reserve over time with data points from 2018-03 (estimate) to 2020-11 (forecast).]
Uncommitted Reserve if Session Cancelled
8. Use of IEEE 802 LMSC funds

f) The Treasurer shall strive to maintain an operating reserve (uncommitted funds on hand) sufficient for paying the worst-case expenses of canceling an IEEE 802 LMSC plenary session.
Worst-Case Expenses of Session Cancellation

All venue contracts have cancellation clauses, typically increasing the penalties the closer to the session dates the cancellation occurs.

Venue cancellation penalties typically include estimated lost F&B profits and room block penalties; can also include penalty for not using the venue.

Worst case is cancellation close to the session dates, and the venue enforces the maximum penalty without allowance of rebooking rooms or moving the session to another date or venue.

Cancellation penalties are often greater than the deposits paid.
Worst Case Cancellation Charge

![Chart showing worst case cancellation charge for various cities, with Chicago having the highest charge and Bangkok having the lowest charge.](chart.png)
Worst Case Cancellation Reserve Change

- 2018-03 (estimate) Chicago
- 2018-07 (forecast) San Diego
- 2018-11 (forecast) Bangkok
- 2019-03 (forecast) Vancouver
- 2019-07 (forecast) Vienna
- 2020-03 (forecast) Atlanta
- 2020-07 (forecast) Montreal
- 2020-11 (forecast) Bangkok

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Uncommitted Reserve if Session Cancelled (Worst Case)
Limitations of Analysis

No forecasted budgets for March 2020 Atlanta and July 2020 Montreal sessions. March 2020 Atlanta may be changed to another location.

No deposit amounts for post-2020 sessions. No contracts for F&B or social for July 2019 Vienna session.

The Exchange Rate used to develop the forecasted budgets is unknown.
To Be Continued…
Historical Results Backup
2011
## 2011 Net Change

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>July Session</td>
<td>($49,166.24)</td>
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<tr>
<td>November Session</td>
<td>$13,810.43</td>
</tr>
<tr>
<td>Income Other</td>
<td>$2,755.07</td>
</tr>
<tr>
<td>NA Expense Other</td>
<td>($37,210.27)</td>
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<tr>
<td>NNA Expense Other</td>
<td>$0.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>$0.00</td>
</tr>
<tr>
<td>Change in Foreign Currency</td>
<td>($4,222.73)</td>
</tr>
<tr>
<td>Depreciation</td>
<td>($752.00)</td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>($61,037.20)</td>
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</table>
## 2011 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$1,068,377.00</td>
<td>($56,062.47)</td>
<td>$1,012,314.53</td>
</tr>
<tr>
<td>NNA Reserve</td>
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<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$1,068,377.00</td>
<td>($56,062.47)</td>
<td>$1,012,314.53</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,070,377.00</td>
<td>($56,062.47)</td>
<td>$1,014,314.53</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$0.00</td>
<td>$102,481.00</td>
<td>$102,481.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,070,377.00</td>
<td>$46,418.53</td>
<td>$1,116,795.53</td>
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</table>
## 2012 Net Worth Change

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>March Session</td>
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</tr>
<tr>
<td>July Session</td>
<td>$15,420.49</td>
</tr>
<tr>
<td>November Session</td>
<td>($1,125.50)</td>
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<tr>
<td>Income Other</td>
<td>$3,692.02</td>
</tr>
<tr>
<td>NA Expense Other</td>
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</tr>
<tr>
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</tr>
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<tr>
<td>Change in Foreign Currency</td>
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<tr>
<td>Depreciation</td>
<td>($752.00)</td>
</tr>
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<td>Net Worth Change</td>
<td>($73,501.31)</td>
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## 2012 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$1,012,314.53</td>
<td>($81,521.02)</td>
<td>$930,793.51</td>
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<tr>
<td>NNA Reserve</td>
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<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$1,012,314.53</td>
<td>($81,521.02)</td>
<td>$930,793.51</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,014,314.53</td>
<td>($81,521.02)</td>
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</tr>
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<td>$73,790.20</td>
<td>$176,271.20</td>
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<tr>
<td>Total Reserves</td>
<td>$1,116,795.53</td>
<td>($7,730.82)</td>
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</table>
2013
## 2013 Net Worth Change

<table>
<thead>
<tr>
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<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
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<td>($22,180.39)</td>
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<tr>
<td>July Session</td>
<td>$118,865.59</td>
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<td>November Session</td>
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<td>Income Other</td>
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<tr>
<td>NA Expense Other</td>
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<td>($7,137.76)</td>
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<tr>
<td>NNA Venue Setaside</td>
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</tr>
<tr>
<td>Change in Foreign Currency</td>
<td>($5,689.95)</td>
</tr>
<tr>
<td>Depreciation</td>
<td>($752.00)</td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>$223,083.43</td>
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</table>
## 2013 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$930,793.51</td>
<td>($39,102.45)</td>
<td>$891,691.06</td>
</tr>
<tr>
<td>NNA Reserve</td>
<td>$0.00</td>
<td>$268,627.83</td>
<td>$268,627.83</td>
</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$930,793.51</td>
<td>$229,525.38</td>
<td>$1,160,318.89</td>
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<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$932,793.51</td>
<td>$229,525.38</td>
<td>$1,162,318.89</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$176,271.20</td>
<td>($5,689.95)</td>
<td>$170,581.25</td>
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<tr>
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<td>$1,109,064.71</td>
<td>$223,835.43</td>
<td>$1,332,900.14</td>
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</table>
2014
# 2014 Net Worth Change

<table>
<thead>
<tr>
<th>March Session</th>
<th>($403,975.75)</th>
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<tbody>
<tr>
<td>July Session</td>
<td>$40,521.38</td>
</tr>
<tr>
<td>November Session</td>
<td>($37,220.49)</td>
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<td>$1,104.97</td>
</tr>
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<tr>
<td>Change in Foreign Currency</td>
<td>($1,145.25)</td>
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<tr>
<td>Depreciation</td>
<td>($485.00)</td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>($305,238.25)</td>
</tr>
</tbody>
</table>
# 2014 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$891,691.06</td>
<td>$159,066.45</td>
<td>$1,050,757.51</td>
</tr>
<tr>
<td>NNA Reserve</td>
<td>$268,627.83</td>
<td>($293,238.45)</td>
<td>($24,610.62)</td>
</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$1,160,318.89</td>
<td>($134,172.00)</td>
<td>$1,026,146.89</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,162,318.89</td>
<td>($134,172.00)</td>
<td>$1,028,146.89</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$170,581.25</td>
<td>($170,581.25)</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,332,900.14</td>
<td>($304,753.25)</td>
<td>$1,028,146.89</td>
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</table>
2015
### 2015 Net Worth Change

<table>
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<tr>
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<th>Net Worth Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>January Session</td>
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</tr>
<tr>
<td>March Session</td>
<td>($14,481.19)</td>
</tr>
<tr>
<td>July Session</td>
<td>($97,180.88)</td>
</tr>
<tr>
<td>November Session</td>
<td>$48,185.70</td>
</tr>
<tr>
<td>Income Other</td>
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</tr>
<tr>
<td>NA Expense Other</td>
<td>($7,605.71)</td>
</tr>
<tr>
<td>NNA Expense Other</td>
<td>($474.70)</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
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</tr>
<tr>
<td>Change in Foreign Currency</td>
<td></td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>$274,070.71</td>
</tr>
</tbody>
</table>
## 2015 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
<td>$1,050,757.51</td>
<td>$59,926.60</td>
<td>$1,110,684.11</td>
</tr>
<tr>
<td>NNA Reserve</td>
<td>-$24,610.62</td>
<td>$214,144.11</td>
<td>$189,533.49</td>
</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$1,026,146.89</td>
<td>$274,070.71</td>
<td>$1,300,217.60</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,028,146.89</td>
<td>$274,070.71</td>
<td>$1,302,217.60</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,028,146.89</td>
<td>$274,070.71</td>
<td>$1,302,217.60</td>
</tr>
</tbody>
</table>
## 2016 Net Worth Change

<table>
<thead>
<tr>
<th>Session</th>
<th>Net Worth Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>January Session</td>
<td>$26,423.76</td>
</tr>
<tr>
<td>March Session</td>
<td>$6,130.98</td>
</tr>
<tr>
<td>July Session</td>
<td>$75,417.42</td>
</tr>
<tr>
<td>November Session</td>
<td>($8,207.53)</td>
</tr>
<tr>
<td>Income Other</td>
<td>$1,457.38</td>
</tr>
<tr>
<td>NA Expense Other</td>
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</tr>
<tr>
<td>NNA Expense Other</td>
<td>$0.00</td>
</tr>
<tr>
<td>NNA Venue Setaside</td>
<td>$234,700.00</td>
</tr>
<tr>
<td>Change in Foreign Currency</td>
<td></td>
</tr>
<tr>
<td>Net Worth Change</td>
<td>$333,070.47</td>
</tr>
</tbody>
</table>
## 2016 Reserve

<table>
<thead>
<tr>
<th>Reserves</th>
<th>Beginning</th>
<th>Change</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD General Reserve</td>
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<td>NNA Reserve</td>
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</tr>
<tr>
<td>General + NNA Reserve</td>
<td>$1,300,217.60</td>
<td>$333,070.47</td>
<td>$1,633,288.07</td>
</tr>
<tr>
<td>Petty Cash</td>
<td>$2,000.00</td>
<td>$0.00</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>General + NNA + Petty Cash</td>
<td>$1,302,217.60</td>
<td>$333,070.47</td>
<td>$1,635,288.07</td>
</tr>
<tr>
<td>Singapore Funds USD</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Total Reserves</td>
<td>$1,302,217.60</td>
<td>$333,070.47</td>
<td>$1,635,288.07</td>
</tr>
</tbody>
</table>
A Modest Proposal
Historical Financial Data

I have spent quite a bit of time pulling together and maintaining files and spreadsheets containing detailed data of the financial operations of the IEEE 802 LMSC from 2011 to today. All data across all covered years is consistent and correlated; the same level of detail has been applied uniformly across all covered years. In addition, forecast data up through 2020 have been captured to the same level of detail.

Data reported for 2009 and 2010 is perfunctory and not to the same level of detail as data for subsequent years; data for years before 2009 has not been captured at all. I never had access to any records for 2010 or before other than a perfunctory budget vs. actual spreadsheet.

Having consistent data across many historical years gives the ability to make correlations and projections; the more the consistent data the better the projections.
Treasurer Work

The amount of work that the Treasurer is required to do has increased over the past few years. IEEE now mandates detailed entry of financial transactions into their financial reporting system NetSuite.

Sessions in Non-North American locations are more complex financially, IEEE 802 LMSC is committed to more frequent NNA sessions than in the past, and sessions in North American locations may also become more complex as well.

Handling all the financial data does take away time and attention from the Treasurer to make financial policy decisions and recommendations.
Proposal

I am willing to volunteer to keep updated the Transactions, Budget vs. Actual, Trimester Reports, Session Deposits, Transaction Breakdowns, Meeting Attendance based on transactions data, and Uncommitted Funds Analysis in a timely manner and make all data available to the IEEE 802 LMSC Treasurer and any other EC member upon request. I also volunteer to get the correct data entered into the IEEE NetSuite reporting system.

Making this service available frees up the Treasurer to make policy decisions based on the supplied data, and enables the Treasurer to take on more of a CFO role for the IEEE 802 LMSC.

Having the same person “wrangle” the data helps maintain continuity.
Backup
Historical Session Experiences

So far as I know, IEEE 802 LMSC has never had to cancel a session.

IEEE 802 Wireless was forced to cancel their September 2001 session.

One Orlando session had to be moved at the last minute when the originally contracted venue went bankrupt a month before the session; an alternative venue was located.

The IEEE 802 Wireless January 2017 session had to be moved to a different venue when the originally contracted venue cancelled the contract.

One session originally located in New Orleans had to be relocated when hurricane Katrina severely damaged the venue; the replacement venue was the DFW Hyatt.
Historical Reserve

The IEEE 802 LMSC reserve as of the end of the March 2009 session was reported as $1,285,081.
July 2019 Vienna Session

As of the date of this report there is not a signed contract for the food and beverage catering nor for the social; the only signed contract is for the venue itself. Therefore, the cancellation penalties for the currently unsigned contracts are unknown.

Unlike most other venue contracts, the Vienna venue contract does not protect against inflation; the contract gives numbers based on the rates in effect in 2015 (when the contract was signed) but explicitly states that the actual charges will be based on the rates in effect when the session is held.
November 2019 Waikoloa Session

Due to the limited dining options at this venue, IEEE 802 LMSC provides lunches to the attendees, which incurs a significant increase in the expenses. For the March 2012 session IEEE 802 LMSC added an additional $100 to the normal registration fees just for the session; for the July 2015 session the IEEE 802 LMSC did not institute a registration fee increase. The analysis in this report assumes no registration fee increase for the November 2019 session.
March 2020 Atlanta Session

Although the location has been approved for this session, no contract has been signed, and no forecast budget exists. Therefore, there is no data as to the forecasted financial result of the session.

One possible issue with the session in Atlanta is that the venue originally chosen for the January 2017 IEEE 802 Wireless session in Atlanta cancelled at the last minute, but did pay the contracted penalty to IEEE 802 Wireless as a result. This may affect the negotiation with a venue for this session.

It is possible that the location of this session is changed to Chicago at the same venue as the March 2018 session; at the time of this report the March 2018 session has an estimated deficit of $100,000.
Although the location has been approved for this session, no contract has been signed, and no forecast budget exists. Therefore, there is no data as to the forecasted financial result of the session.
The contract has been signed for this venue, but given how recently it was signed, the Executive Secretary and the Meeting Management have not had the time to develop an forecast budget. Comparison between the November 2018 contract and the November 2020 contract was used to estimate the changes from the November 2018 forecast budget to develop a November 2020 forecast budget.
Beyond 2020

Sessions beyond the November 2020 session have not even had locations approved, much less signed contracts nor forecasted session budgets. In addition, the amount and timing of deposits is completely unknown. In the past, the total future session deposits at any point in time have reached as high as over $100,000, so as a worst-case guess it can be estimated that the total future session deposits may reach the same.
CAD -> USD History 5 year
CAD -> USD History 2000 - now

1 CAD = 0.7898 USD -0.00320 (0.407%)

Feb 23, 5:14PM GMT

Compare: Enter currency Add □ CADGBP □ CADJPY □ CADEUR □ CADCHF □ CADAUD □ CADINR

Zoom: 1m 3m 6m YTD 1y 5y 10y All

Sources include SIX.
EUR -> USD History 5 year

1 EUR = 1.2318 USD 0.00000 (0.000%)
Mar 3, 1:19AM GMT

Zoom: Am 1m 3m YTD 1y 5y 10y All

Apr 12, 2012 22:00 Prices: 1.2103

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EUR -> USD History 2000 - now
THB -> USD History 5 year
THB -> USD History 2000 - now

1 THB = 0.0318 USD  +0.00006 (0.189%)
Feb 23, 5:17PM GMT

Compare:  Enter currency  Add  THBGBP  THBJPY  THBEUR  THBCHF  THBAUD  THBCAD

Zoom:  1m  2m  6m  YTD  1y  5y  10y  All

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• **5.3.5 Meeting expenses**

An IEEE Standards Sponsor may choose to set a meeting fee as a means of offsetting the costs of meeting administration, logistics, and other similar costs of standards development.

The Sponsor committee assumes the entire risk of deficit; i.e., if a deficit is incurred in the operation of a meeting, that deficit is chargeable against the Sponsor committee. Conversely, if a surplus results from the operation, the surplus will be credited to the Sponsor committee.