## Advanced Programming Specialist Group
### 2017 Survey Results Summary

Total Respondents: 98

Q1 of 9. Which of the talks in the 2016/17 programme did you attend? (Check all that apply)

<table>
<thead>
<tr>
<th>Talk</th>
<th>Replies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integration Underpins your Digital Transformation (October)</td>
<td>2</td>
</tr>
<tr>
<td>Declarative Elm Disease (November)</td>
<td>2</td>
</tr>
<tr>
<td>Programming and Refactoring Dependent Types (December)</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to the Theory of Systems (January)</td>
<td>2</td>
</tr>
<tr>
<td>Using Mainstream Programming Languages to Write Applications on FPGAs (January)</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Blockchain (February)</td>
<td>9</td>
</tr>
<tr>
<td>Perl Object Orientation and Graph Theory (March)</td>
<td>2</td>
</tr>
<tr>
<td>Challenges of Going to Behaviour Driven Development (April)</td>
<td>4</td>
</tr>
<tr>
<td>Big Data, Data Mining and Machine Learning (May)</td>
<td>5</td>
</tr>
<tr>
<td>Did not attend any talks in 2016/2017</td>
<td>81</td>
</tr>
</tbody>
</table>

Q2 of 9. The following talks were recorded and posted on YouTube. Did you watch any of these recordings? (Check all that apply)

<table>
<thead>
<tr>
<th>Talk</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Integration Underpins your Digital Transformation (October)</td>
<td>4</td>
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<td>Programming and Refactoring Dependent Types (December)</td>
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</tr>
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<td>Introduction to the Theory of Systems (January)</td>
<td>9</td>
</tr>
<tr>
<td>Using Mainstream Programming Languages to Write Applications on FPGAs (January)</td>
<td>6</td>
</tr>
<tr>
<td>Introduction to Blockchain (February)</td>
<td>7</td>
</tr>
<tr>
<td>Perl Object Orientation and Graph Theory (March)</td>
<td>5</td>
</tr>
<tr>
<td>Challenges of Going to Behaviour Driven Development (April)</td>
<td>4</td>
</tr>
<tr>
<td>Big Data, Data Mining and Machine Learning (May)</td>
<td>13</td>
</tr>
<tr>
<td>Did not watch any recordings</td>
<td>76</td>
</tr>
</tbody>
</table>
Q3 of 9. Which talk (either attended or recorded) did you enjoy most? (Select one only) 90 Respondents, 90 Replies

- Integration Underpins your Digital Transformation (October) 0
- Declarative Elm Disease (November) 2
- Programming and Refactoring Dependent Types (December) 2
- Introduction to the Theory of Systems (January) 1
- Using Mainstream Programming Languages to Write Applications on FPGAs (January) 4
- Introduction to Blockchain (February) 8
- Perl Object Orientation and Graph Theory (March) 3
- Challenges of Going to Behaviour Driven Development (April) 1
- Big Data, Data Mining and Machine Learning (May) 8
- Did not attend/watch any talk 61

Q4 of 9. Please indicate why you found this the most interesting talk? (Check all that apply or state reason) 43 Respondents, 60 Replies

- Topic is relevant to my job 14
- Quality of speaker/presentation 8
- Personal interest 27
- Other (Please specify) 11
Q5 of 9. What topics would you like to hear about in the 2017/18 programme? (Check all that apply or add to list) 87 Respondents, 490 Replies

- Cloud computing applications/programming 42
- Compute intensive applications/programming (e.g. analytics, Big Data) 41
- Database applications/programming 27
- Mobile applications/programming (e.g. Android, IOS mobile) 31
- Development tools and environments (e.g. Eclipse) 30
- Dynamic programming languages (e.g. Python, Ruby) 27
- Enterprise/system architecture 18
- Functional programming languages (e.g. Haskell, F#) 30
- Internet applications/programming (e.g. PHP) 11
- Mainstream programming languages (e.g. C, C++, C#, Java) 37
- Parallel/concurrent applications/programming 29
- Programming for new technologies (e.g. robotics, neural networks, AI, sensor networks, IoT) 55
- Software techniques (e.g. compilation, garbage collection, search) 34
- Operating systems or environments 21
- User interface programming (e.g. Javascript, HTML5) 27
- Historical reviews of programming languages and/or environments 23
- Other (Please specify) 9

Q6 of 9. What is/would be your preferred method of participating in Advanced Programming SG events? (Check all that apply) 87 Respondents, 217 Replies

- Attend a lecture in person 58
- Listen to a live audio broadcast 10
- Listen to an audio recording 18
- Watch a live video broadcast 35
- Watch a video recording 65
- Participate in a face-to-face discussion/workshop 19
- Participate in an audio/visual conference 12
Q7 of 9. How useful are APSG events to you?
Please tell us and add any other comment you may wish to make

- Essential for my professional development  □ 4
- Very useful for my personal and professional development  □ 24
- Quite useful for my general awareness  □ 39
- Useful for personal networking  □ 6
- Not useful at all  □ 11

Q8 of 9. What is your professional background?
(Check all that apply)

- Member of Computer Science academic staff at a UK university  □ 9
- Member of other academic staff at a UK university  □ 4
- Software developer for an enterprise in the computing industry  □ 20
- Software designer/architect for an enterprise in the computing industry  □ 15
- Application programmer for a large scale enterprise (including educational institutions)  □ 21
- Application programmer for small or medium sized enterprise (including educational institutions)  □ 11
- Application software designer/architect for any enterprise  □ 16
- Enterprise architect  □ 6
- Independent Consultant  □ 20
- Non-UK resident professional  □ 11
Q9 of 9. Would you be willing to serve as a committee member of APSG in 2017/18?  
84 Respondents, 84 Replies
- Chairman 0
- Vice-Chairman 0
- Treasurer 0
- Membership Secretary 1
- Recording Officer 0
- Meeting Organiser 0
- Publicity Officer 0
- Technical Committee Member 4
- I would prefer not to serve but I can give a talk 5
- Not at this time 74

Comments:
Some trends were apparent in the supplied comments.
1. Although the APSG videos and other information are readily available, a greater degree of prominence could usefully be given to them.
2. The meetings are held at a London venue. Many members live away from London and cannot conveniently attend meetings.