Overview of the CStat award and the benefits of holding the award

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Member of the RSS Professional Affairs Committee

Professional Statisticians’ Forum meeting
31st October 2016
Outline of Presentation

TL career
Support for professional statisticians
Professionalism
The Royal Statistical Society and CStat
Revalidation for CStat
The RSS Professional Statisticians’ Forum
Trevor Lewis: career to-date

University of Bradford

- Lecturer in Mathematical Statistics 1974/82

Pfizer (multinational pharmaceutical company)

- Consulting Statistician 1982/90
- Head of Biometrics 1990/2000
- VP Development Operations 2000/04

TLwise Consulting Ltd

- Director and consulting statistician 2004 onwards
- Primarily providing advice on design, analysis and reporting of clinical trials

Integration & re-engineering of Pfizer global biometrics organisation, processes and systems 1989/2001

Pharma industry-wide stats expert/working groups (ABPI, EFPIA, ICH) 1991/2001

Royal Statistical Society
- VP and Chair of Professional Affairs Committee 1998/2000, 2011/12

Pfizer mergers & acquisitions (Warner-Lambert, Pharmacia) 2000/03

Science Council
- Chair of CPD learning group 2011-
- Member of Registration Authority 2012-
Support network

- The professional statistician
- The professional body
- The employer
What the support network provides

<table>
<thead>
<tr>
<th>Professional body</th>
<th>Employer</th>
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<tbody>
<tr>
<td>• Professional standards</td>
<td>• The opportunity to practice</td>
</tr>
<tr>
<td>• A professional pathway recognised by awards</td>
<td>• A career pathway within the organisation</td>
</tr>
<tr>
<td>• A network of colleagues focused on discipline</td>
<td>• A network of colleagues focused on business sector</td>
</tr>
<tr>
<td>• Development opportunities focused on your career needs</td>
<td>• Development to advance your value to your employer</td>
</tr>
<tr>
<td>• Periodic professional appraisal (revalidation)</td>
<td>• Annual performance appraisal &amp; goal setting</td>
</tr>
<tr>
<td>• A permanent &amp; consistent presence</td>
<td>• A transient &amp; variable presence</td>
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Professionalism

Expectations of a professional
- Being trustworthy, ethical, up-to-date and competent

Adhering to a Code of Conduct
- Working in the public interest
- Obligations to employers/clients
- Obligations to the profession and the Professional Body
- Professional competence & integrity

Model of ‘Professionalism in Science’ developed by the Science Council
- Technical competence
- Ethical competence
- Engagement in CPD and reflective practice
True Professionalism: The courage to care about your people, your clients, and your career.

<table>
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<tr>
<th>Courage to care</th>
<th>Commitment and dedication</th>
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<tbody>
<tr>
<td>Your people</td>
<td>Your work colleagues, your collaborators, your fellow professionals, your mentees</td>
</tr>
<tr>
<td>Your clients</td>
<td>Your project leader, your employer, your contracted client, your students</td>
</tr>
<tr>
<td>Your career</td>
<td>Your professional development and longer term career aspirations</td>
</tr>
</tbody>
</table>
The professional pathway

Education in Statistics
• Graduate Diploma/accredited degree
• Honours-level degree
• GradStat

Statistical practice
• Professional Code of Conduct
• Experience & development (approx 5 years)
• CStat/CSci

Career progression
• Adherence to Code of Conduct
• Continuing professional development & reflective practice
• Maintenance of CStat/CSci - revalidation
Evolution of GradStat & CStat

CPD Policy introduced in 2004, updated in 2009. Clarifies the code of conduct requirement to ‘upgrade professional knowledge and skill’.

In 2008 the RSS became a Licensed Body of the Science Council for the award of Chartered Scientist (CSci).

In 2010 the ASA introduced their Professional Statistician (PStat) award. (From 2004 SSC have had P.Stat.; from 1996 SSAI have had AStat).

In 2012 revalidation of CStat on a 5-year cycle was announced. Aligns with best practice approach to periodically confirm professionalism.

In 2012 established the Professional Statisticians’ Forum; to share professional experiences and discuss professional development.

In 2014 the Code of Conduct was revised to make it more accessible to professional statisticians and the beneficiaries of their work.

Today: RSS has >5900 members, of whom >1100 are Chartered Statisticians (CStats), >520 are Graduate Statisticians (GradStats).
Value of CStat

To CStat holders:
- Supports career progression
- Raises confidence and self-esteem

To employers and clients:
- Increases credibility of work product
- Signifies ability and integrity

To the profession and RSS:
- Defines professional standards
- Provides a community and network
Today: Increased relevance of the professional pathway (GradStat, CStat/CSci)

- Increased focus on professionals, their accountability, and need for them to work in the public interest
- Increased recognition of ‘evidence based decision making’ and awareness of the misrepresentation of ‘evidence’
- Greater variety of education and career pathways – confusing for employers and clients
- More choice, less control of career pathways – greater need for practitioners to have professional body support
Take advantage of what the RSS has to offer as a professional body

How has NOT holding the CStat award enhanced

- Your career as a statistician?
- Your support to your colleagues & profession?
- Your support to your professional body?

How could holding the CStat award be of benefit to you?

- The response to this question will be personal to you ..... Please take the time to ask yourself the question ... and if necessary investigate further what the award has to offer you.
Why revalidation for CStat?

- Increases credibility of CStat as a professional award
- Advocated by employer focus groups
- Reflects trends in continuing professional development (CPD) best practice
- Experience with CSci revalidation

Raising the value of the CStat award for those who hold it and for the beneficiaries of their work
Retaining professional status (CStat/CSci)
The basis of revalidation

Professionals are Trustworthy, Ethical, Up-to-date & Competent

- Working in the public interest
- Obligations to employers/clients
- Obligations to the profession
- Professional competence & integrity

Adherence to the Society’s Code of Conduct

Compliance with the Society’s CPD Policy

- Maintenance, improvement and broadening of knowledge and skill
- Maintenance of records of CPD activities and reflective practice
The Society’s CPD Policy

In each 12-month period

At least 60 learning hours

Activities from at least 3 of 5 categories

- Work-based learning, professional, formal/educational, self-directed learning, other

Reflection on benefit

- To self (specific skills and knowledge gained)
- To users of your work (employer, clients, colleagues, students, etc)
Pyramid of Knowledge & Skill

Processes
(people, tasks, problems, decisions)

Interpersonal skills
(consultancy, influencing, negotiating, teamwork, leadership, mentoring)

Knowledge of context
(scientific, social, business setting; legal, regulatory, standards framework)

Technical foundation
(problem formulation, methodology development and implementation)
Professional Statisticians’ Forum

Focus on statisticians rather than statistical science

- Effective professional development
- Career case studies
- Making an impact in the workplace
- Statistical consultancy

Webinars and face-to-face meetings open to all

www.rss.org.uk/psf for future events and summaries, slides, webcasts of past events
## Useful links

<table>
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<tbody>
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<td><a href="www.rss.org.uk/gradstat">www.rss.org.uk/gradstat</a></td>
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<tr>
<td>Chartered Statistician status</td>
<td><a href="www.rss.org.uk/cstat">www.rss.org.uk/cstat</a></td>
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<tr>
<td>Chartered Scientist status</td>
<td><a href="www.rss.org.uk/csci">www.rss.org.uk/csci</a></td>
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<td>Professional Statisticians’ Forum</td>
<td><a href="www.rss.org.uk/psf">www.rss.org.uk/psf</a></td>
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<td>RSS events (e.g. meetings, conferences, courses, etc)</td>
<td><a href="www.rss.org.uk/events">www.rss.org.uk/events</a></td>
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<tr>
<td>Professional registers (GradStat, CStat)</td>
<td><a href="www.rss.org.uk/professional-registers">www.rss.org.uk/professional-registers</a></td>
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Any Questions?