## The RSS Professional Pathway

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Member of the RSS Professional Affairs Committee

Professional Statisticians' Forum meeting at Errol Street

27<sup>th</sup> March 2018

### 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-**

### Outline

Professionalism

The RSS Professional Pathway

The value of CStat

Continuing Professional Development

## 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 by David H Maister (Simon & Schuster, 1997)

The courage to care about your people, your clients and your career

Losers

Cruisers

Dynamos

## Losers, Cruisers and Dynamos

#### Losers

- Do not meet the basic standards of quality, client service and hard work
- Are working in a 'dying practice' area
- Have disruption in their personal life

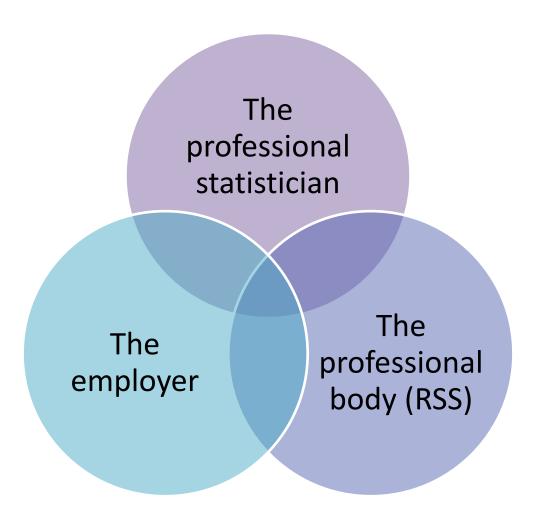
## Cruisers

- Fully competent, work hard, do good work, take care of their clients
- Experts at repetitive work, but not going anywhere
- Do well for the time being living off existing skills; will be overtaken by others
- Have a job, not a career

# Dynamos

- Have a personal strategic plan
- Work to learn something new, continually adding new skills and knowledge
- Find ways to get out of the flow of repetitive work
- Pursue active career development and continuous self-improvement

# Support network



## What the support network provides

#### **Employer**

- The opportunity to practice
- A career pathway within the organisation
- A network of colleagues focused on business sector
- Development to advance your value to your employer
- Annual performance appraisal & goal setting
- A transient & variable presence

#### Professional body

- Professional standards
- A professional pathway recognised by awards
- A network of colleagues focused on discipline
- Development opportunities focused on your career needs
- Periodic professional appraisal (revalidation)
- A permanent & consistent presence

# The RSS professional pathway

# Statistical practice

- Professional Code of Conduct
- Training & Experience (approx 5 years)
- CStat/CSci

# Career progression

- Adherence to Code of Conduct
- Compliance with CPD Policy
- Revalidation retaining CStat/CSci status

- Education in Statistics
- RSS accredited degree
- Degree(s) that meet the RSS Level6/7 standard
- GradStat

#### Pathway to Chartered Statistician (CStat) status

#### www.rss.org.uk/cstat

#### Standard route

- A. Statistical education to the GradStat standard (RSS Level 6/7)
- B. Refereed evidence of professional training and experience (about 5 years)
- C. Professional development in line with RSS CPD Policy for the last 2 years

#### **Competency route**

- 1. Formal statistical education does <u>not</u> meet GradStat standard (RSS Level 6/7)
- 2. Standard route B&C
- 3. Verified additional information on supplemental formal training and competency achievement in professional practice

Professional register: <a href="https://www.rss.org.uk/professional-registers">www.rss.org.uk/professional-registers</a>

#### Pathway to Chartered Scientist (CSci) status

#### www.rss.org.uk/csci

#### **Background info**

- An award of the Science Council that the RSS is licensed to offer to CStats
- About 200 professionally active CStats also hold CSci award
- Can apply simultaneously for CStat & CSci via the same online system

#### **Additional requirements**

- A Masters level degree (or an M-level report)
- Evidence of achievement of 15 competencies in professional practice:
  - Application of knowledge and understanding (3)
  - Personal responsibility (4)
  - Interpersonal skills (3)
  - Professional practice (3)
  - Professionalism (2)

Register: <u>www.sciencecouncil.org/the-professional-registers/search</u>

# Retaining professional status (CStat/CSci) The basis of revalidation

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

Adherence to the Society's Code of Conduct

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

Compliance with the Society's CPD Policy

- Maintenance, improvement and broadening of knowledge and skill
- Maintenance of records of CPD activities and reflective practice

# Revalidation processes

#### **CStat only**

#### www.rss.org.uk/cstat-revalidation

- Revalidation normally takes place on a 5-year cycle for those who are professionally active.
- If <u>not</u> professionally active can retain CStat without undertaking revalidation; and professional register indicates career break, career change or retired.
- Submit a declaration & CPD summary on 5<sup>th</sup> year of cycle; and possibly be audited.

#### CStat & CSci

#### www.rss.org.uk/csci-revalidation

- Revalidation takes place annually and serves revalidation needs of both awards.
- If (permanently) <u>not</u>
   professionally active need to
   relinquish CSci status.
- Make declaration each year; and possibly be selected for audit.

Audit: Submit a CPD summary and a completed Revalidation Form

#### 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

# Value of CStat (according to holders of the award (2011))

It is a prestigious professional award – attests to professionalism and quality of work

It is an award that is of personal value to me (sense of belonging to professional community)

It is an award that is valued in my current role (by employer, clients, colleagues, funders)

I hold the award in order to be supportive to my profession and my professional body (RSS)

It is an award that is helpful to career progression (promotion, job applications)

It enables me to be listed in the RSS Directory of Consultants

www.rss.org.uk/consultants

# 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?
- Your delivery to clients?

How <u>could</u> 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.

## 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)

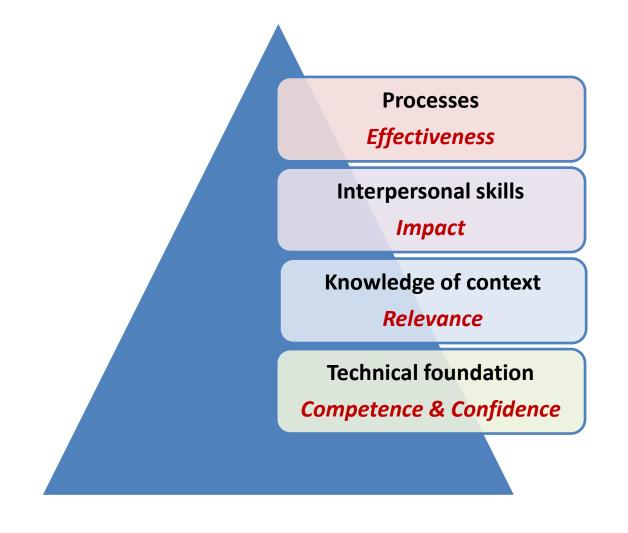
#### **Knowledge of context**

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

#### **Technical foundation**

(problem formulation, methodology development and implementation)

# Pyramid of Knowledge & Skill



## Scope of CPD activities

#### Work based learning

 e.g. experiential learning, in-service training, secondments, supervision

#### Professional activity

 e.g. involvement in a professional body, giving presentations at conferences, networking

#### Formal / Educational

 e.g. writing articles / papers, attending training courses or scientific meetings, gaining qualifications

#### Self-directed learning

 e.g. reading journals, reviewing books / articles, reflective practice

#### Other

• e.g. relevant transferable skills developed through involvement in strategic projects & community work

# RSS CPD activity summary

| CPD Activities over the 12 month period |                         | Career status (include a brief description of job role over the 12 month period) |             |                   |                                      |
|---|-------------------------|--|-------------|-------------------|--------------------------------------|
| Category                                | Description of activity | Start<br>Date  | End<br>Date | Learn-<br>ing Hrs | Outcome: Benefit to practice & users |
| Work-based learning                     |                         |  |             |                   |                                      |
| Professional activity                   |                         |  |             |                   |                                      |
| Formal/<br>educational                  |                         |  |             |                   |                                      |
| Self-directed learning                  |                         |  |             |                   |                                      |
| Other                                   |                         |  |             |                   |                                      |
| Total                                   |                         |  |             | >60               |                                      |

Recommended formats: - the above (<u>www.rss.org.uk/cpdprofiles</u>)

- online CPD system accessed via MyRSS.

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# Any Questions?