

## Sugar developments

**Speaker: Richard Rankin**

**41st Autumn Conference - 7th/8th October 1996**

### Tate & Lyle

- Imported cane
- 1.3 million tonne quota
- 2 factories
- Continuous operation

### British Sugar

- UK grown beet
- 1.144 million tonne quota
- 9 factories
- Processing campaigns

*Both operate within EU sugar regime*

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### British Sugar

- 23,000 directly/indirectly employed
  - Beet average = 194,000 football fields
  - 8m tonnes beet processed
  - 4500 loads/day
  - 10,000 tonnes sugar/day
  - As much effluent as 1.3m people
  - Generate electricity equivalent to use of 200,000 homes
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### UK market

Retail	500,000 tonnes
Industrial	1,600,000 tonnes

Consumption growth despite:

- retail decline
  - sugar substitution
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### Service progress - basics

Measurement of performance

Product quality

Simplifying trading:

- managing inventory
  - paperless trading
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### **Service progress - extras**

- Sugar handling
  - Energy purchase and management
  - Effluent cost reduction
  - Waste reprocessing/elimination
  - Logistics
  - Sweetener systems
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### **Product development**

- Add value
- Increase consumption
- Competitive advantage

*Respond to changing markets*

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**No food manufacturer buys sugar for its sweetening property alone**

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### **Properties of sucrose**

*Physical*

- Bulk density
- Colligative properties
- Colour crystallinity
- Dielectric constant
- Osmotic pressure
- Solubility
- Vapour pressure
- Viscosity
- Water activity

## *Chemical*

- Antioxidant
  - Fermentation
  - Flavour
  - Flavour enhancement
  - Purity
  - Sensory properties
  - Sweetness
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## **Change functionality**

- Non-dissolving
  - Non-sweet
  - Change particle size
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## **Combining sugar and...**

- Colours
  - Flavours
  - Other ingredients:
    - processing solutions
    - product performance
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## **Sugar makes you fat and rots your teeth!**

No added sugar - a product claim!

*These myths are not supported by the scientific evidence*

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## **Sugar Bureau - working to close the gap**

- Health professional organisations
  - Media
  - Food industry
  - Retail
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## **EU sugar regime**

- 'Renewed' until 2001
- Annual support price review
- Annual quota review
- To ensure GATT compliance

*Anticipate quota cuts and support price reduction by 2001*

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## **Beyond 2001**

- Regime change driven by GATT
  - EU enlargement
  - Likely that structure will be retained but with lower support levels
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## **UK sugar industry**

Developing to meet the challenge of change