

# **Widespread industry acceptance**

## **What is holding us back?**

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# Overview

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## Industry Considerations for Adoption of GCxGC

### 1. Pragmatic Feasibility

Time is money, and the learning curve to implement a new method may not be worth the investment.

### 2. Awareness of the power of GCxGC

Detection of new compounds that are currently not seen, and that could be a problem.

### However:

Real added value is recognized in some industrial fields

# Overview

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## **The Quantification Challenge**

Lack of standardized methods for quantitative analysis

## **The Data Processing Challenge**

Software vs Data issue .... Can we have a dream ?

**Could we dream about having raw data in our possession for advanced data processing?**

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# Could we dream about having raw data in our possession for advanced data processing?

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Yes We  
Can !



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**BUT...**

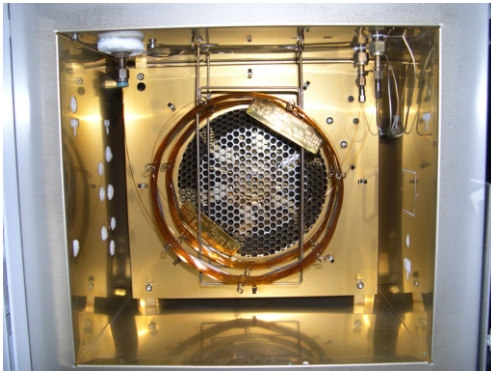


# Overview

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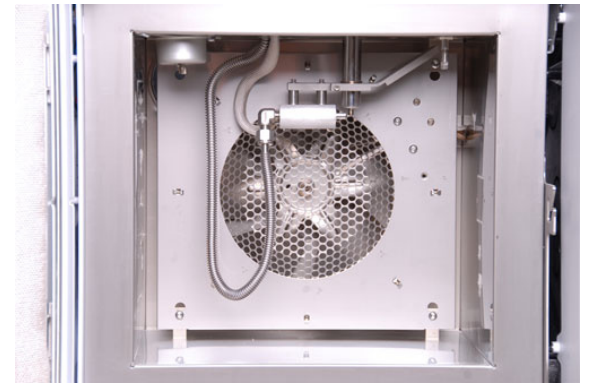
## The 'Pimp my GC' Challenge

GC



Modulator  
Software

GCxGC



# Overview

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## **The Regulatory Method Challenge**

1. Regulatory methods should use techniques that are accessible to everyone (COST)
2. Too long to establish

Do we actually know things that were made in one night ?

## **The Correlation Challenge**

Correlation between the past information and the new information (Old vs new method)



# Overview

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## **Overhyped, Buyers Remorse Challenge ?**

1. We have to be careful that implementing a new technique takes time
2. Optimization and validation of a method : 9 months !
3. Stuck because of data complexity : where to start for data treatment ?

# Overview

## The Consumables Challenge

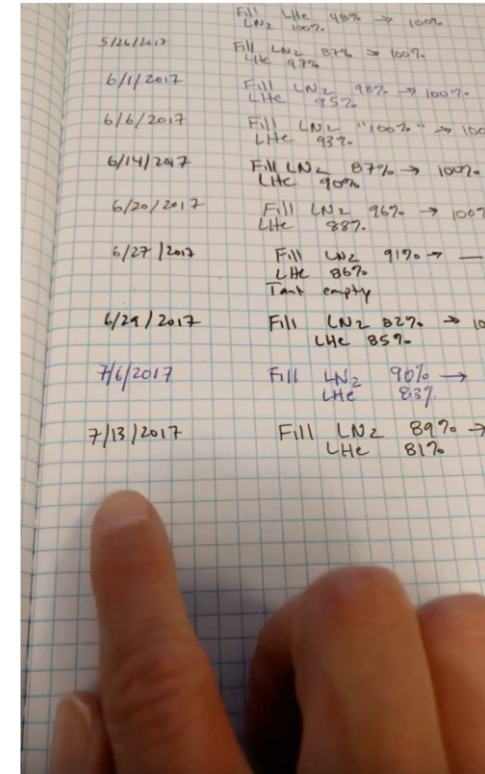
Yes it is

**BUT!**

## Solutions

Flow modulation

→ Choose the modulator according to the applications



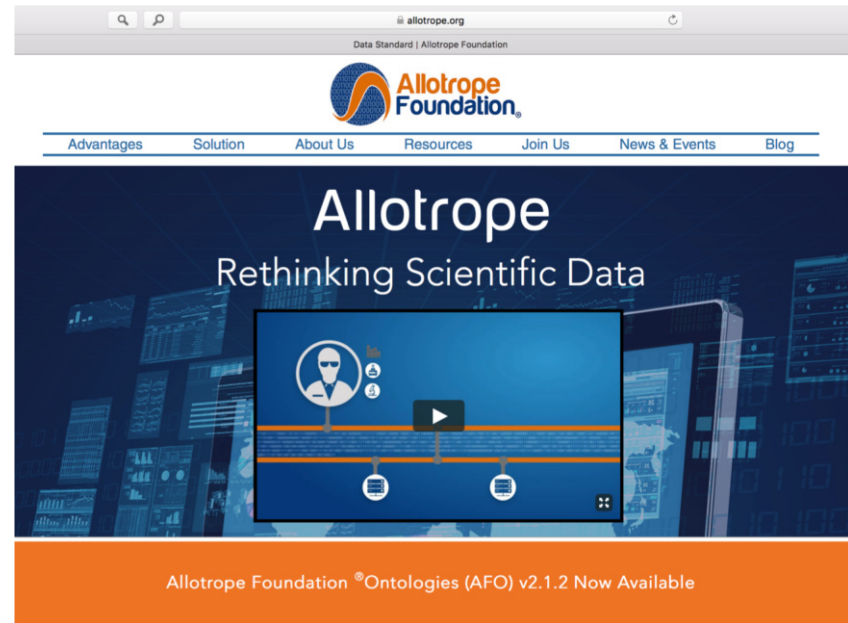
# Overview

## Other Areas in Need of Development

1. No libraries for high resolution mass spectra

Need to develop the databases

2. Better optimization ?
3. Better peak capacity ?
4. What about the use of the chromatographic space ?



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# GC×GC

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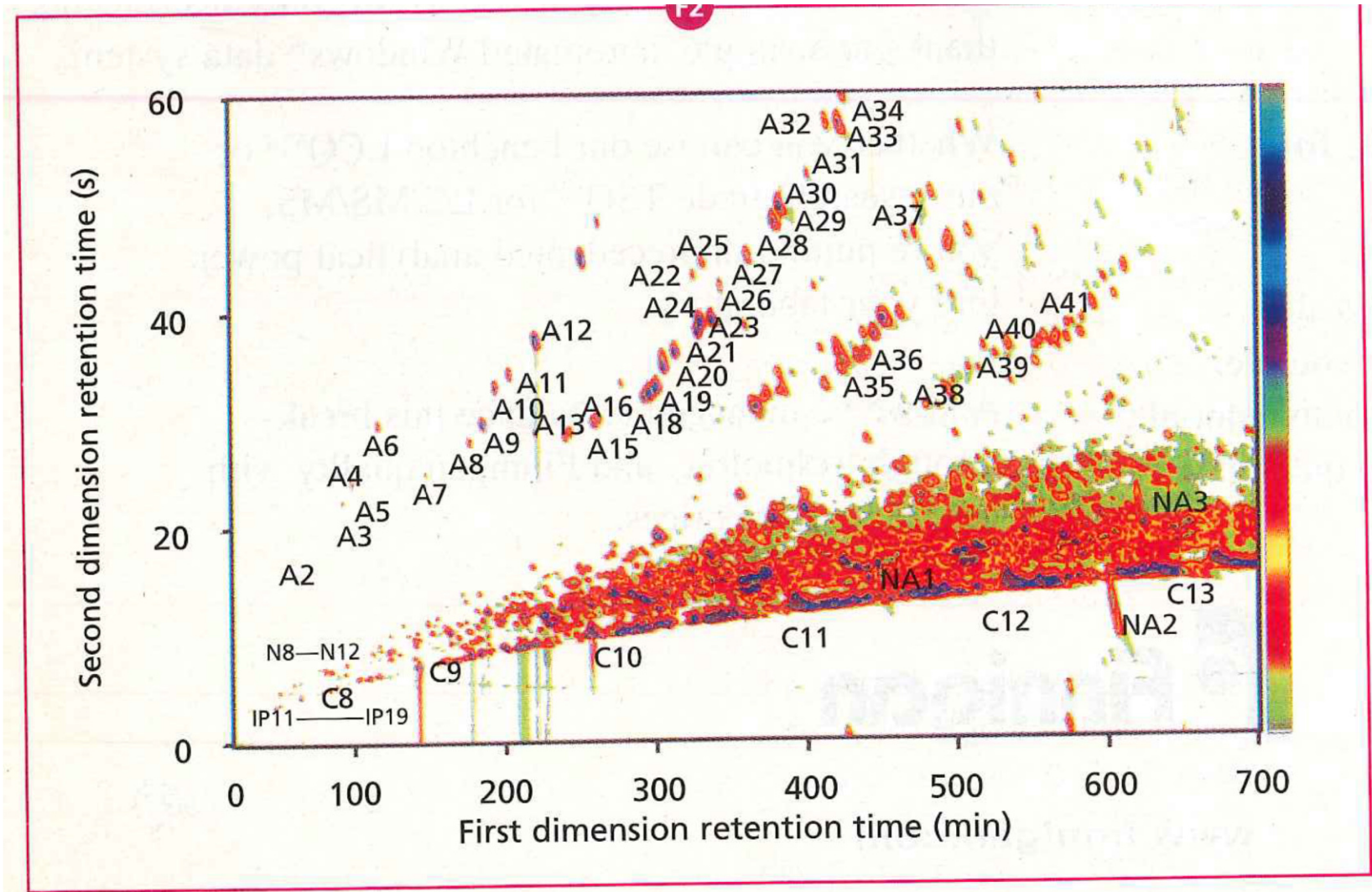
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for the  
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**John Dimandja**  
Author of *SQL For Dummies*<sup>®</sup>



# Parting Thought



# Acknowledgements

- Delphine Zanella