



# American Chemical Society (ACS)

## GPSL Delivers World's First Truly Automated Journal Production Workflow

ACS needed to improve their time-to-market in order to maintain their competitiveness. This necessitated more automation in their publishing environment.

### Business Overview:

The American Chemical Society (ACS) is the world's largest scientific society and one of the world's leading sources of authoritative scientific information. A nonprofit organization, chartered by Congress, ACS is at the forefront of the evolving worldwide chemical enterprise and the premier professional home for chemists, chemical engineers and related professions around the globe.

### Challenges:

ACS's journal publishing environment was largely a manual-intensive, print-centric production environment that needed to migrate to an XMLbased, fully-digital environment.

More importantly, ACS needed to improve their time-to-market in order to maintain their competitiveness. This necessitated more automation in their publishing environment.

The ACS Journal Composition Automation initiative aimed to achieve the following goals across all of their journal publications:

- Retain control of their data and the publication process
- Reduce time to publication and market for existing and new products
- Reduce production and operational costs
- Automate all typographical quality assurance processes in the publishing workflow

ACS teamed with GPSL to deliver an XML solution based on ACS's existing Arbortext and Documentum technology platform.

### Complexity:

- Automated composition of complex scientific material
- Support for composition of dense floating content
- Automated quality control for very large page volumes

### Requirements:

- High throughput, with no intervention during composition process
- No loss of quality for auto-composed articles
- Handle special scientific elements such as complex tables, MathML equations, references lists, chemistry charts and schemes
- Integration with existing Documentum CMS
- Integration with third party composition vendor workflows



### Profile:

**The American Chemical Society**  
World's largest scientific society

### Industry:

Scientific Publishing

### Geographies:

Washington, DC  
Columbus, OH

### Business Solution:

Developed an automated composition process that evaluates page quality metrics

### Solution Products:

Documentum, Arbortext Publishing Engine, Arbortext Advanced Print Publisher

### Benefits:

- 92% automation of composition and QA
- Reduced time to market from 2 weeks to 7 hours
- 1-year payback on solution
- Reduces need to outsource composition
- Enables multi-channel delivery of journal articles