

# 4<sup>th</sup> International Conference on Bioprocess and Biosystems Engineering

Bioprocess-2016

## (Theme: An integrated approach to Bioprocess and Bio systems engineering research world)

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### Summary:

The monitoring and control of processes is of key importance in all industries. Effective methods of monitoring are required to develop, optimize, and maintain processes at a maximum efficiency and desired product quality. Biotechnology processes are used to produce a large variety of products, such as primary and secondary metabolites, cells, tissues, vaccines, and therapeutic proteins. Different host cell systems are used in the modern biotechnology, for example, bacterial cells, plant cells, and eukaryotic cells, with specific requirements for bioreactor design, media composition, and process control. Especially the production of recombinant proteins and antibodies has become a major source of revenue during the past 30 years, which are typically produced by genetically engineered mammalian cells. The cultivation of mammalian cells requires, among other factors, complex media composition, specialized bioreactor design, and the control of various parameters in narrow ranges to obtain the desired productivity and product quality.

Bioprocess-2016 welcomes attendees, presenters, and exhibitors from all over the world to Houston, USA. We are delighted to invite you all to attend and register for the “International Conference on Bioprocess and Biosystems Engineering (Bioprocess-2016)” which is going to be held during October 20-21, 2016 in Houston, USA.

For more details please visit-<http://bioprocess.conferenceseries.com/>

### Importance & Scope:

A bioprocess is specific process that uses complete living cells or their components to obtain desired products. Transport of energy and mass is fundamental to many biological and environmental processes. Areas, from food processing to thermal design of building to biomedical devices to pollution control and global warming, require knowledge of how energy and mass can be transported through materials. When a product is manufacture in bulk amount, bioprocess engineering plays important role. Production of synthetic amino acid, beverages, vaccines, hormones, antibiotics all these are accomplish with bioprocess engineering.

Most favored for optimal production

Duplication of these conditions during scaled- up production

Advances in genetic engineering

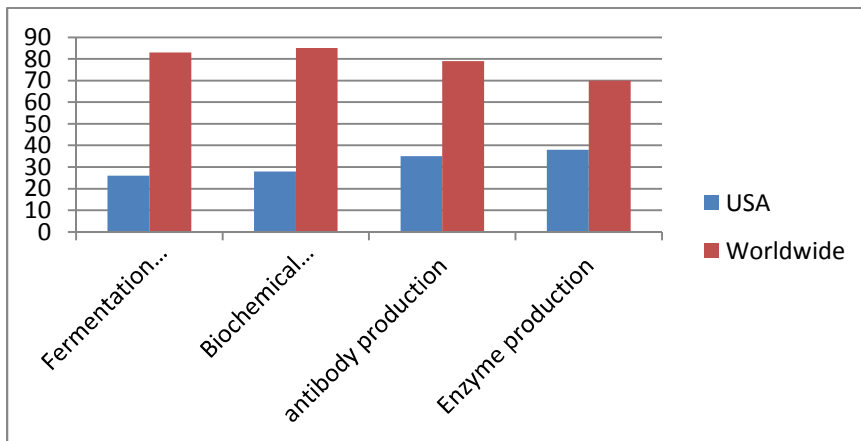
In solving environmental, pharmaceutical, industrial and agricultural problems

Safety, purity, potency, efficacy and consistency

To delivered quality product to market

The annual Bioprocess Conference is a remarkable event which brings together a unique and international mix of large and medium Pharmaceutical and clinical research and companies, leading universities and research institutions making the conference a perfect platform to share experience, foster collaborations across industry and academia and evaluate emerging innovations around the world.

### Applications of Bioprocess



**Figure 1:** Applications of Bioprocess

### Why Houston?

Houston is the populous city in Texas and the fourth most populous city in the United States. According to the 2012 U.S. Census estimates, the city had a population of 2.16 million people within a land area of 599.6 square miles. Houston is the seat of Harris County, and its metropolitan area is the fifth-most populated in the U.S. The city was named after former General Sam Houston, who was president of the Republic of Texas and had commanded and won at the Battle of San Jacinto 25 miles east of where the city was established. The burgeoning port and railroad industry, combined with oil discovery in 1901, has induced continual surges in the city's population. In the mid-twentieth century, Houston became the home of the Texas Medical Center—the world's largest concentration of healthcare and research institutions—and NASA's Johnson Space Center, where the Mission Control Center is located. Houston is multicultural, in part because of its many academic institutions and strong industries as well as being a major port city. Houston is recognized worldwide for its energy industry particularly for bioprocess as well as for biomedical research and aeronautics. The Minimum pay for bioprocess

engineer in industrial \$39,490U.S.D Renewable energy sources wind and solar are also growing economic bases in Houston. The ship channel is also a large part of Houston's economic base. Alive with energy and rich in diversity, Houston is a dynamic mix of imagination, talent and first-class attractions that makes it a world-class city. Home to a vibrant economy, beautiful surroundings and a population full of optimism and spirit, it's no wonder that Houston is a popular international destination. Of the 10 most populous U.S. cities, Houston has the most total area of parks and green space, The city also has over 200 additional green space totaling over 19,600 acres that are managed by the city including the Houston Arboretum and Nature Center.

## Why to attend

With members from around the world focused on learning about Bioprocess and engineering, this is your single best opportunity to reach the largest assemblage of participants from all over the world. Conduct demonstrations, distribute information, meet with current and potential customers, make a splash with a new product line, and receive name recognition at this 2-day event.

World-renowned speakers, the most recent techniques, tactics, and the newest updates in fields Bioprocess and engineering are hallmarks of this conference.

Be Part of it!

- This conference focusing on all the major aspects in the fields of Bioprocess. It would be beneficial for all the students who ever willing to enter into corporate worlds targeting to the respective fields.

**A Unique Opportunity for Advertisers and Sponsors at this International event:**

<http://bioprocess.conferenceseries.com/sponsors.php>

## Associations in Houston

ISBioTech

Houston Society of Association Executives

BioHouston

Greater Houston Manufacturers Association – GHMA

Biotechnology Industry Organization

European Association of Pharma Biotechnology (EAPB)

Bio-Process Systems Alliance (BPSA)

BIO Deutschland

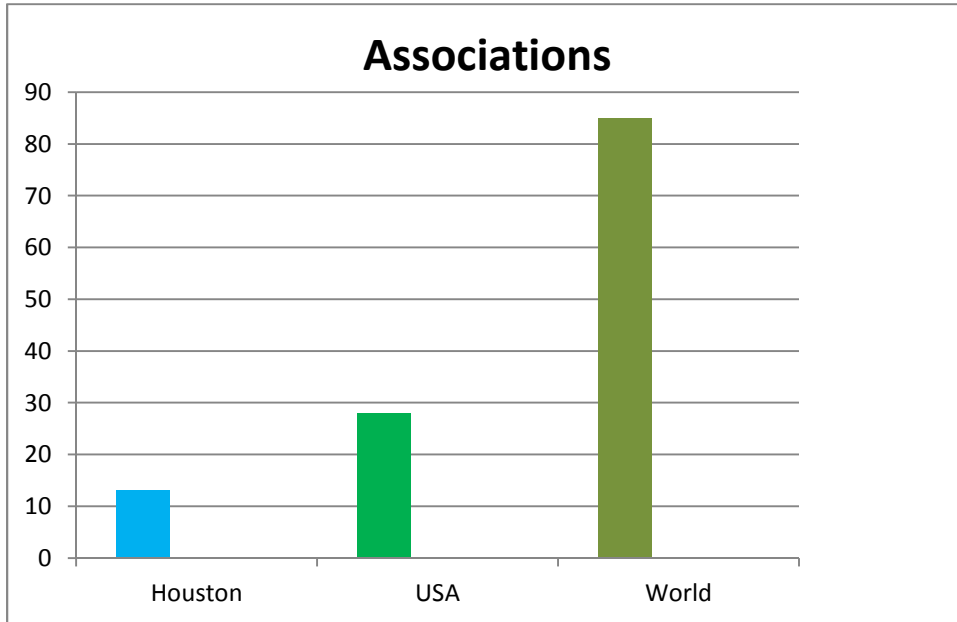
GEN

ASME BioProcessing Equipment

(ASME BPE) Standard

PDA

ISPE

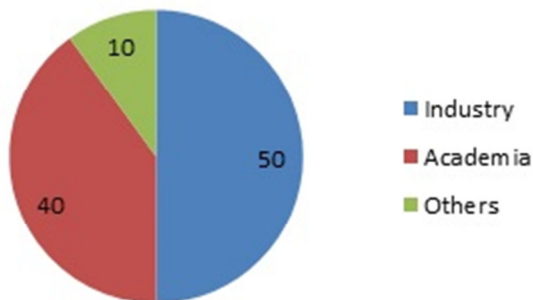


**Figure 2:** Statistical Analysis

### Target Audience

Bioprocess Professionals, Drug Discovery & Development Professionals, Analysts, Investors, Distributors, social media, Delegates, Sponsorship & exhibitors, MD and/or PhD clinicians and scientists

Industry 50%  
Academia 40%  
Others 10%



**Figure 3:** Target Audience

Professional Organizations of bioprocess engineers:

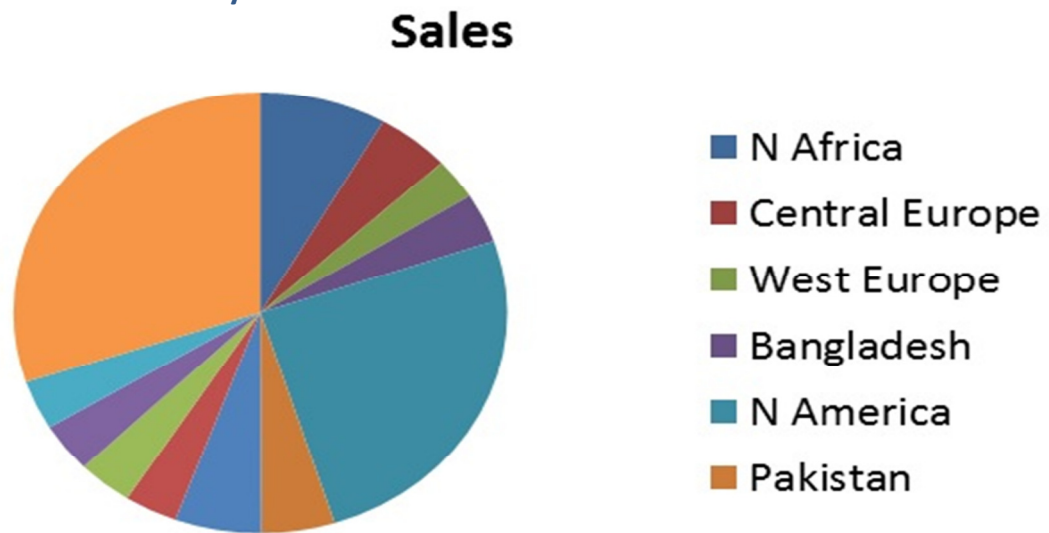
American Society of Agricultural Engineers (ASABE)

Institute of Biological Engineering (IBE)

International Society for Bioprocess Technology (ISBioTech)

International Society for Pharmaceutical Engineering (ISPE)

### Global Sales Market Analysis



**Figure 4:** Global market analysis