

# 北京大学“信息技术与信息化”名家讲坛

## Impact! Industrial Research That Can Change the World



演讲人：**Laura Haas 博士**

美国工程院院士，

**ACM Fellow, IBM Fellow**

时间：2010年9月8日 下午2点

地点：北京大学理科二号楼 2736 报告厅

### 摘要

IBM's nine worldwide research labs have won major awards, produced an army of famous scientists, and revolutionized the information technology industry. We strive to be famous for our science, and vital to IBM and the world. In this talk, we explore how IBM Research pursues these lofty goals. We show examples of several projects that are changing IBM's business, their disciplines, and maybe even the world, and the diverse mechanisms they employ to have impact. Projects will be drawn from different labs and a variety of domains, including theoretical and applied computer science, health informatics, and services science. We will end with a deeper dive into cognitive computing and how it may change the future of information processing, while teaching us about how our minds work.

### 演讲者简介

Laura Haas is an IBM Fellow and has been director of computer science at IBM Almaden Research Center since 2005, and now also leads research in computer science across IBM's worldwide research labs. Previously, Dr. Haas was responsible for Information Integration Solutions (IIS) architecture in IBM's Software Group after leading the IIS development team through its first two years. She joined the development team in 2001 as manager of DB2 UDB Query Compiler development. Before that, Dr. Haas was a research staff member and manager at the Almaden lab for nearly twenty years. In IBM Research, she worked on and managed a number of exploratory projects in distributed database systems. Dr. Haas is best known for her work on the Starburst query processor (from which DB2 UDB was developed); on Garlic, a system which allowed federation of heterogeneous data sources; and on Clio, the first semi-automatic tool for heterogeneous schema mapping. Garlic technology, married with DB2 UDB query processing, is the basis for the IBM WebSphere Information Server's federation capabilities, while Clio capabilities are a core differentiator in IBM's Rational Data Architect. Dr. Haas is an active member of the database community and currently serves as Vice President of the VLDB Board of Trustees as well as on many program committees for technical conferences. She was vice chair of ACM SIGMOD from 1989-1997. Dr. Haas has received several IBM awards for Outstanding Technical Achievement, and an IBM Corporate Award for her work on federated database technology.

She is a member of the National Academy of Engineering (美国工程院院士) and the IBM Academy of Technology, an ACM Fellow, and Vice Chair of the board of the Computing Research Association. Dr. Haas received her PhD from the University of Texas at Austin, and her bachelor degree from Harvard University.

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