

Appointment

Be it known that

Bernd Bilitewski

Is hereby appointed as

Guest Professor

of

Shanghai Jiao Tong University

For Three Years

(2014/12-2017/12)

No. 2014042

聘书

兹聘请 *Bernd Bilitewski* 为

上海交通大学客座教授(聘期三年)




校长、中国科学院院士

President of Shanghai Jiao Tong University,
Academician of Chinese Academy of Sciences

2014年12月



40 Years of Modern Waste Management and its Future



Prof. Dr.-Ing. habil. Dr. h.c.
Bernd Bilitewski

Technische Universität Dresden,
Institute of Waste Management and
Contaminated Sites Treatment.

Bilitewski教授1985年起历任Technische Universität Berlin讲师，教授。1994年创建Institute of Waste Management and Contaminated Sites Treatment, Technische Universität Dresden。研究方向主要在垃圾管理和循环经济、垃圾热处理、填埋场风险评价及污泥处理及风险评价。

Bilitewski教授是欧盟环境研究DGXII科学方向主席，欧洲环境局科学委员会和德国垃圾管理委员会等多个组织委员。先后主持了包括欧盟第7框架协议在内的数十个项目。发表400多篇学术论文，专著70多部，其中编著的<waste management>被翻译成多种语言，曾任《waste management》等多种学术期刊编委，2015年获得国际固废组织IWWG“终生成就奖”

Short introduction:

In the early 70th of the last century with the start of modern waste management an important and innovative push came from the USA. New sorting and pyrolysis plants as well as new ideas for landfills were introduced and constructed. Europe followed soon also with new ideas and newly developed technology. The result of this is a separate collection, recycling and reuse of material and energy recovery from waste of more than 90% in a number of cities and areas in Europe. This is a very big success even so we still face certain environmental problems awaiting its solution.

What kind of problems are we facing, which we should solve in the future sooner than later? I can demonstrate it with the periodic system. Almost 200 years ago only very few elements were used, like iron, copper, lead, tin, gold, silver etc. Out of all the elements we used less than 10%. Today in our modern society we need more than 90% of all known elements in our consumer products and produce a severe environmental problem. This makes a proper recycling and reuse of especially rare elements very difficult and a real challenge.

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