



# 17<sup>th</sup> Meeting of the WP-PRE Hamburg, October 3<sup>rd</sup>, 2004

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- 1) Opening
- 2) Report on EFCE meeting
- 3) Announcements
- 4) Books
- 5) PhD conference
- 6) Next meeting



# Opening

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## Welcome

Members excused:

Prof. A. Ricard

Prof. G. Sadowski

Prof. F. Stoessel

Prof. G. Weickert

Prof. M. Morbidelli

Prof. J. Asua

Dr. T. de Loos

Dr. C. Schmidt

Prof. L. Janssen

Dr. K.-D. Hungenberg

New members:

Dr Sajjadi, Shahriar, Univ. London



# EFCE Matters

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WP and section chairman meeting, June 28<sup>th</sup> 2004:

## 1) Strategic matters

- WP guest members
  - Invited by chairman
  - Should not exceed 20%
  - Delegates of WP will decide who is voting or not
- Industrial membership
  - Industrial members insufficient
  - Poorly active

## 2) WP matters

- Merging of WP CRE and CR in the applications of catalysis



# EFCE Matters (2)

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WP and section chairman meeting, June 28<sup>th</sup> 2004:

## 3) Section matters

- Section is larger than a WP (orthogonal)
- Section on separation technology
- Section on product design and engineering
- New section on food
- Is process intensification a new section ?

## 4) 50<sup>th</sup> anniversary of EFCE

- 11 WP will publish a paper on ChERD
- JK and TM have submitted an article for our WP (will be published, Trans IChemE, Part A, December 2004, Chemical Engineering Research and Design, 82(A12): 1-3)



# EFCE Matters (3)

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WP and section chairman meeting, June 28<sup>th</sup> 2004:

## 5) EFCE Website

- [www.efce.info](http://www.efce.info)

## 6) Future of Chem. Eng.

- Process engineering for sustainability
- Product engineering
- Multiscale modeling

## 7) EFCE journal: ChERD

- Review time too long
- Encourage submissions



# EFCE Matters (4)

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WP and section chairman meeting, June 28<sup>th</sup> 2004:

## 8) ECCE-5 & 7<sup>th</sup> world congress

- Fees too expensive
- Scientific program not clear enough
- EFCE is not satisfied, congress does not correspond to their expectations.

## 9) Next meeting

- Monday April 11<sup>th</sup>, 2005 in Frankfurt.



# Announcements

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WP-virtual crosslinking ?

WP-HPT : Prof. Z. Knez

WP-M: Dr J. Bertrand

2006: Election of **Chairman** and **Secretary** by voting members

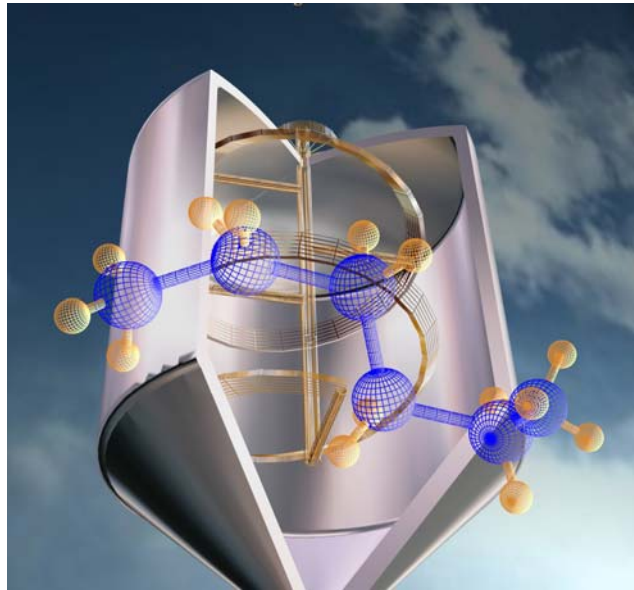
Candidates could present their program during the 2005 meeting.



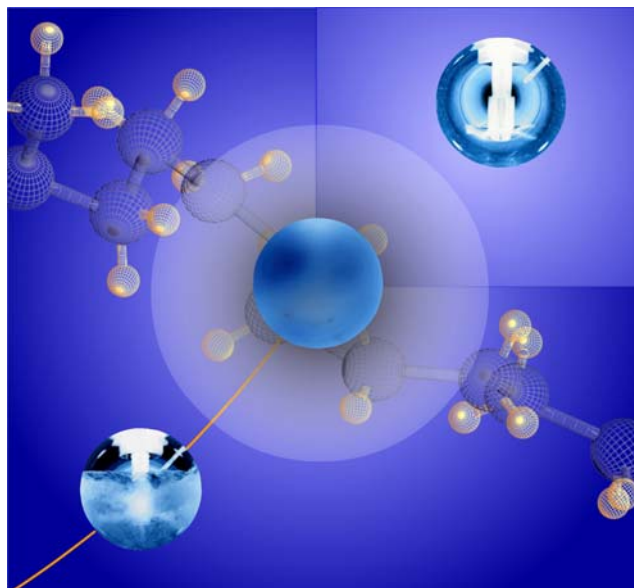
# Books

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## 1) Handbook of PRE



## 2) $scCO_2$ in PRE (MK)





# Handbook of PRE

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- WP job
- Editors : WP chairman and secretary
- Take benefit from WP expertise's
- 22 chapters
- 29 authors (19 from the WP)
- 2 volumes
- Available beginning 2005 (Wiley)

Thanks to all authors and contributors



# Handbook of PRE (2)

	Title	Authors	Country
1	PRE, an integrated approach	Meyer / Keurentjes	CH/ NL
2	Polymer characterization	Schoenmakers	NL
3	Polymer thermodynamics	De Loos	NL
4	Polycondensation	Costa, Bachmann	P, D
5	Free Radical Polymerization: homogeneous	Hutchinson	CDN
6	Free Radical Polymerization: suspension	Brooks	GB
7	Emulsion polymerization	Asua, Morbidelli, Storti	E, CH
8	Ionic polymerization	Hungenberg	D
9	Coordination polymerization	Soares, Simon	CDN
10	Numerical methods	Iedema, Fox	NL, USA
11	Scale-up	Naumann	USA
12	Safety of polymerization processes	Stoessel	CH
13	Measurement & control of polym. reactors	Richards , Congalidis	USA
14	Polymer properties through structure	Agarwal	NL
15	Polymer mechanical properties	Plummer	CH
16	Polymer stabilization and degradation	Nguyen	CH
17	Modification processes	Janssen	NL
18	Thermosets	Bentham	NL
19	Fibers	Juijn	NL
20	Removable	Barandiaran, Asua	E
21	Nano- and micro-structuring of polymers	Broer, Bastiaansen	NL
22	Recent developments in polymer processes	Kemmere	NL



- WP job
- Editors : Maartje Kemmere, Thierry Meyer
- Take benefit from WP expertise's, extended with international experts
- 15 chapters
- 22 authors (6 from the WP)
- 1 volume
- Available Spring/Summer 2005 (Wiley)



# scCO<sub>2</sub> in Polymer Reaction Engineering (2)

Ch	Title	Author(s)	Country
	Preface	Meyer / Keurentjes	CH / NL
	<i>Part I Fundamentals</i>		
1	Introduction	Kemmere	NL
2	Polymerization kinetics in scCO <sub>2</sub>	Beuermann / Buback	D
3	Phase behavior in scCO <sub>2</sub>	Sadowski	D
4	Mass and heat transfer in scCO <sub>2</sub>	Keurentjes/Wijers/Meyer	NL/CH
5	Monitoring under scCO <sub>2</sub>	Meyer / Fortini	CH
	<i>Part II Polymerization reactions</i>		
6	Dispersion polymerization in scCO <sub>2</sub>	Storti / Morbidelli	CH
7	Inverse emulsion polymerization in scCO <sub>2</sub>	Beckman	USA
8	Catalytic polymerization of olefins in scCO <sub>2</sub>	Kemmere / Keurentjes	NL
9	CO <sub>2</sub> as a monomer in production of PC	Duchateau	NL
10	Production of fluoropolymers in scCO <sub>2</sub>	Wood/Roberts/DeSimone	USA
	<i>Part III Polymer processing</i>		
11	Polymer processing with scCO <sub>2</sub>	Kazarian / Fleming	UK
12	Synthesis of advanced materials in scCO <sub>2</sub>	Cooper	UK
13	Polymer extrusion with scCO <sub>2</sub>	Janssen / Nalawade	NL
14	Chemical modification of polymers in scCO <sub>2</sub>	Koning / De Gooijer	NL
15	Residual monomer reduction with scCO <sub>2</sub>	Kemmere / Keurentjes	NL



# PhD Conference

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## "PRE without frontiers"

### Who

- PhD students in the polymer field
- not too many "bosses" around/background

### What

- presentations or only posters
- room for discussions/informal
- workshops (doing rather than listening)

### When

- connected to WP meeting or (large) conference?
- next year (fall 2005)

### Where

- cheap....
- central location, easily accessible



# Next meeting

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- Propositions
  - Bill Gustafsson (Borealis, SWE)
  - Other ?
  
- Date ?