



Business, Educational and Research Cooperation between Institutions of Northern Finland and North-West Russia (BERMAP)

## **«Modern technologies of waste water treatment in the P&P industry»**

Archangelsk State Technical University (room № 409)  
Archangelsk, 3.– 4.5.2007

### ***PROGRAMME***

#### **Thursday 3.5**

Consistent interpretation English-Russian

**Chairmen:** Risto Hiljanen, NorTech Oulu, University of Oulu,  
Konstantin Bogolitsyn, department of applied and theoretical chemistry, ASTU.

- 8.30-8.45 Registration.
- 8.45–9.00 Opening of the workshop, Risto Hiljanen and Konstantin Bogolitsyn.
- 9.00–10.30 «*Modern technologies and methods of biological waste water treatment in the P&P industry*», Jyri Pelkonen, Pöyry Environment Oy (part 1).
- 10.30-11.00 Coffee
- 11.00–11.45 «*Modern technologies and methods of biological waste water treatment in the P&P industry*», Jyri Pelkonen, Pöyry Environment Oy (part 2).
- 11.45–12.00 Discussion, questions
- 12.00–13.00 Lunch
- 13.00–15.00 «*Existing and emerging technologies for effluent treatment in the P&P industry*», Ulla Gytel, Kemira Oyj, Pulp & Paper Chemicals.
- 15.00–15.30 Coffee



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- 15.30–17.30 «*Internal treatment of process waters*», Ulla Gytel, Kemira Oyj, Pulp & Paper Chemicals.
- 17.30–18.00 Summing up/discussion.
- 18.00-20.00 Cocktail event in the University restaurant.

### **Friday 4.5.**

- 8.30–10.00 «*Practical monitoring systems and analyses of waste water quality*», Jyri Pelkonen, Pöyry Environment Oy (part 1).
- 10.30-11.00 Coffee
- 11.00–12.00 «*Practical monitoring systems and analyses of waste water quality*», Jyri Pelkonen, Pöyry Environment Oy (part 2).
- 12.00–13.00 Lunch
- 13.00-14.00 Summing up and closing of the seminar.
- 14.00-17.00 Possibility for the representatives of the enterprises to meet Finnish specialist separately face-to-face (please book the time before hand from Natalia Gorbova!)

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## LIST OF PARTICIPANTS

### **Finnish side:**

1. Golubeva Natalia, project coordinator, NorTech Oulu, University of Oulu
2. Gytel Ulla, application manager WQM, Kemira Oyj, Pulp & Paper Chemicals
3. Hiljanen Risto, director, NorTech Oulu, University of Oulu
4. Hänninen Niko, project planner, NorTech Oulu, University of Oulu
5. Pelkonen Jyri, project manager, Pöyry Environment Oy

### **Russian side:**

#### *ASTU:*

1. Bogolitsyn Konstantin, the head of the department of applied and theoretical chemistry
2. Gorbova Natalia, docent of the department of applied and theoretical chemistry
3. Larionov Nikolay, PhD student the department of applied and theoretical chemistry
4. Podrazhanskaya Natalia, the head of the international department of ASTU

#### *State Enterprise «Arkhangelsk CGMS-R (Central hydrometeorological service)»:*

1. Vlasova Raisa, the head of the laboratory of monitoring polluted surface waters

#### *The Centre of the laboratory analyses and technical measurements of Archangelsk region:*

1. Danilova Tatiana, vice-head
2. Pukanova Valentina, head

#### *Laboratory of lignin's chemistry:*

1. Brovko Olga, senior researcher
2. Guskova Maria, senior researcher
3. Lichutina Tatiana, the head of the laboratory

#### *Archangelsk Pulp and Paper Factory:*

1. Beljaeva Natalia, the head of the laboratory
2. Lukina Marina, engineer OGT
3. Rudakova Vera, vice-head of the laboratory
4. Fillipov Ilja, main engineer

#### *City of Archangelsk:*

1. Popova Nadezhda, chief specialist of the department of environment



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*The Committee of Nature Protection Board in Arkhangelsk region:*

1. Anisimova Irina, main specialist of the water resources protection
2. Zagidulina Irina, main specialist
3. Serebrennikov Anatoly, vice-head

*Solombala Pulp and Paper factory:*

1. Annenkova Natalia, engineer of chemistry инженер of sanitary and industrial lab
2. Treskina Larisa, engineer of industrial waste water plant

*Archangelsk regional administration:*

1. Kateljuk Tatiana, main specialist of water department