

10th Conference with International participation
»WASTE MANAGEMENT (GzO'09)«
Nova Gorica, SLOVENIA
August 27, 2009

INSTRUCTIONS FOR AUTHORS

FORMAT

All papers should be typed Times New Roman 12pt, double-spaced on A4 format paper with 25mm margins, on one side of the page only, in English or Slovene language. **Number of pages are limited on 12.** Paper submit an electronic copy (CD or to the email joze.kortnik@guest.arnes.si), including illustrations and tables **by July 24, 2009**. Photographs or prints should be in high resolution in black&white (a least 300 DPI for photographs and 1200 DPI for illustrations). Figures and tables should be located within the text, near to the position it is first mentioned in the text. **Do not submit figures and tables in separate files.** The title page should include the authors' names and affiliations and a list of keywords. We require the full mailing address and contact information (telephone, fax, and e-mail address) for the corresponding author. The first page should also include an abstract of not more than 250 words (include quantitative data when possible), which should be self-explanatory without reference to the text. The papers should follow this format: abstract, introduction, experimental protocols, results, discussion, summaries, acknowledgements, references. Number pages consecutively. Authors are responsible for the accuracy of the references, and are reminded that inaccurate references are highly frustrating to the reader, the cited author, and indexing services.

TABLES AND ILLUSTRATIONS

Type each table just after the point where the table is first mentioned in the text. Use arabic numerals to number tables. Details of experimental conditions should be included in the table footnotes. Information that appears in the text should not be repeated in tables, and tables should not contain data that can be given in the text in one or two sentences. All illustrations should be numbered and include caption. Figures should be numbered in the order cited in the text, and they should appear just after the point where it is first mentioned in the text.

REFERENCES

References should be presented in the following style:

Journal titles:

La France, P. and Grasso, D. (1995). "Trajectory modeling of non-brownian particle flotation using an extended Derjagain- Landau-Verwey-Overbeek approach". *Environ. Sci. & Technol*, 29:1346-1360.

Books:

Weber, W.J. Jr. and DiGiano, F.A. (1996). *Process Dynamics in Environmental Systems*. New York: John Wiley & Sons.

Book Chapters:

Sposito, G. (1993). "Surface complexion of metals by natural colloids". In: J.A. Marinsky and Y. Marcus, Eds., *Ion Exchange and Solvent Extraction*, New York: Marcel Dekker, Inc., p. 211.

Proceedings:

Chukhrov, F.V., Zvyagin, B.B., Ermilova, L.P., and Gorshkov, A.I. (1973). "New data on iron oxides in the weathering zone". In J.M. Serratosa and A. Sanchez, Eds., *Proceedings of the International Clay Conference*, Division de Ciencias C.S.I.C., Madrid, pp. 333-341.

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- Line illustrations must be submitted at 1200 DPI and Halftones and color photos should be at least 300 DPI.
- Do not submit PowerPoint files.

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TITLE

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Abstract (Povzetek)

(200-250 words). V članku so prikazane možnosti uporabe papirniškega mulja v Sloveniji in predstavljeni rezultati predhodnih raziskav geotehničnih lastnosti nekaterih papirniških muljev ter kompozitnih mešanic s papirniškim muljem.

Key words (Ključne besede): paper sludge, composites, waste, landfill, ,

1. INTRODUCTION (UVOD)

Uporaba papirniškega mulja za izdelavo različnih geotehničnih konstrukcij v svetu skokovito narašča.

2. RESULTS (REZULTATI)

V državah Evropske Unije je uporaba papirniškega mulja razširjena predvsem (Thomas, F. Zimmie, Juan, D. Quiroz, 1999):

- za zapiranje odlagališč odpadkov,

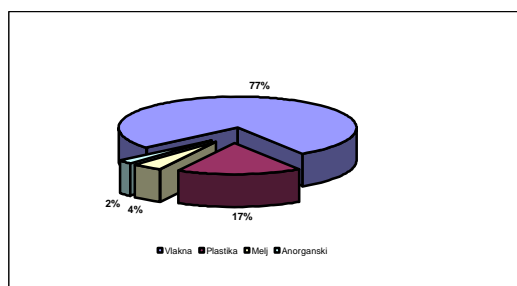


Figure 1. (Slika 1.): Običajna sestava papirniškega mulja (Horace, 2001).

Glede na nastanek, delimo papirniške mulje v tri skupine:

- v prvo skupino spadajo papirniški mulji, ki nastajajo pri proizvodnji celuloze (virgin fibres).
- v drugo skupino spadajo papirniški mulji, ki nastajajo pri dvostopenjski proizvodnji papirja iz odpadnega papirja. V prvi stopnji grobega čiščenja odpadnega papirja nastaja papirniški mulj imenovan rejekt, v drugi stopnji razčrniljenja odpadnega papirja pa papirniški mulj imenovan tudi de-inking paper sludge.

V tabeli 1. so prikazane skupine papirniških muljev glede na lokacijo nastanka.

Table 1. (Tabela 1.): Skupine papirniških muljev glede na lokacijo nastanka.

Papirniški mulj	1. skupina	2. skupina	3. skupina
Goričane			
Količevo			
Krško			
Radeče			
Sladki Vrh			
Vevče			

3. CONCLUSIONS (ZAKLJUČKI)

Po izvedbi predhodnih raziskav smo prišli do naslednjih zaključkov:

- Rezultati predhodnih raziskav so vzpodbudni in omogočajo nadaljevanje raziskav,
- Raziskave je potrebno razširiti na vse papirniške mulje, ki nastajajo v Sloveniji,

LITERATURE

1. <http://www.sigov.si/mop/>
2. Horace, K. Moo-Young, Charles, E. Ochola (2001). The future of Paper Industry Waste Management. Fifth International Workshop on the Use of Paper Industry Sludge in Environmental Geotechnology and Construction, 23-24. May, 2001, Philippines, p. 83-84.
3. Thomas, F. Zimmie, Juan, D. Quiroz (1999). Technical possibilities for paper sludge utilization. Third International Workshop on the Use of Paper Industry Sludge in Environmental Geotechnology and Construction, Proceedings, Finland, 8-19.

