

COMMISSION OF THE EUROPEAN COMMUNITIES

COM(79) 513 final

Brussels, 19 October 1979

COMMISSION MEMORANDUM
ON THE INITIATION AND IMPLEMENTATION OF A SERIES
OF 17 SOCIAL RESEARCH PROJECTS IN ERGONOMICS

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MEMORANDUM

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I. Introduction

The Third Programme on Ergonomics and Rehabilitation in the steel and coal industries approved by the Commission of the European Communities on 2 December 1974 pursuant to Article 55 of the ECSC Treaty has now come to its end. The 9 million units of account made available for the third programme and for the dissemination of results have been committed.

A Fourth Programme on Ergonomics is being prepared. During 1979 it will be discussed with the various expert groups, presented for opinion to the ECSC Advisory Committees (+) and submitted for approval to the Commission of the European Communities.

II. The need for a complementary programme

During the Third Programme the rapid change in the technologies of both the steel and the coal industries was reflected towards the end of the programme in the increased interest displayed in the ergonomics problems associated with various levels of automation and remote control.

+) Research Committee on Ergonomics and Rehabilitation Producers' and Workers' Committee and Subcommittee on Industrial Safety and Medicine Committee of Government Experts.

Similarly, the general movement towards protection from and reduction in exposure to noise and vibration was reflected in the many requests made for assistance for projects on these themes.

Also during the period of the Third Programme a number of questions were raised concerning ergonomics factors in personal protective equipment and clothing.

In a number of cases the funds available in the programme did not allow a sufficiently detailed study of these problems.

The Directorate-General for Employment and Sociale Affairs has consequently submitted a series of projects to the Advisory Committees responsible for E.C.S.C. social research on occupational safety and health +) for their opinion and has received a favourable opinion for the projects listed in Annex I of this document.

III. Project Themes

For the satisfactory completion of the Third programme, and to provide a well-established basis for the Fourth Programme, a number of complementary research projects on the three themes noted below is desirable.

These involve

- (a) the information processing and control problems of workers in the developing technologies of the steel and coal industries, and their implication for safety and health;

+) Advisers on Community Ergonomics Action
Producers' and Workers' Sub-committee on Industrial Safety and
Medicine
Committee of Government Experts.

- (b) studies aimed at producing representative findings on causes and effects of auditory damage and risks due to noise in the industries;
- (c) an ergonomic evaluation of new items of heat protective material and clothing and specialized equipment.

IV. Results

The results of these projects will in general be incorporated in the development of the Fourth Programme, and in line with the provisions of Article 55, § 2 c. second paragraph, of the E.C.S.C. Treaty, final reports will be disseminated through the Expert Committees and the industries' ergonomics network at Community level.

V. Finance

In keeping with the scope of the projects proposed and the wishes of the E.C.S.C. Advisory Committees, the total amount of Commission aid required for the implementation of these 17 research projects and to cover ancillary costs and dissemination of results is E.U.A. 2.759.700.-.

VI. Conclusion

Bearing in mind the favourable opinions expressed by the competent scientific, individual and governmental authorities, the Commission proposes to allocate financial aid amounting to a total of E.U.A. 2.759.700.-, consisting of E.U.A. 2.679.315.- for the implementation of the 17 research projects and E.U.A. 80.385.- to cover ancillary costs and dissemination of results.

This amount is compatible with the commitment estimates adopted for the 1979 E.C.S.C. operating budget.

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Auteur du projet Antragsteller Applicant	Objet et Numéro de la recherche Forschungsthema und Forschungsnummer Subject of Research and Project Number	Durée prévue de la recherche Dauer der Forschung Duration of the work	Coût total en U.C.E. Gesamtkosten in E.R.E. Total cost in E.U.A.	Aide prévue en U.C.E. Vorgesehene Beihilfe in E.R.E. Expected assistance in E.U.A.
Mr. LEAMON Bretby N.C.B.	<p>Point III - a) du document n° 4065/79 Punkt III - a) des Dokuments Nr. 4065/79 Point III - a) of the document n.4065/79</p> <hr/> <p>Les aspects humains de la surveillance et de la commande automatisées des opérations minières.</p> <p>Menschliche Aspekte der Rechnergestützten Ueberwachung und Steuerung von bergbaulichen Arbeiten.</p> <p>Human aspects of computer based monitoring and control of mining operations.</p>	<p>3 ans 3 Jahre 3 years</p>	<p>287.000.-</p>	<p>172.200.-</p>

doc. n. 3746/79

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<p>Prof. KIRK Loughborough B.S.C./N.C.B.</p>	<p>Problèmes ergonomiques posés par l'utilisation d'unités d'affichage</p> <p>Ergonomische Fragen bei der Verwendung von Bildschirm-Kommunikationsmitteln</p> <p>Ergonomics problems in the use of Visual Display Units (V.D.Us.)</p> <p>doc.n. <u>3744/79</u></p>	<p>18 mois 18 Monate 18 months</p>	<p>144.500.-</p>	<p>93.925.-</p>
<p>Mr. REHHAHN Konz Sidérurgie all. Deutsche Eisen- + Stahlindustr German steel</p>	<p>L'importance des facteurs de contrainte ergonomique pour les travailleurs directement concernés</p> <p>Die Bedeutung ergonomischer Belastungsfaktoren für die unmittelbar betroffenen Arbeiter</p> <p>The significance of ergonomics stress factors for workers directly affected.</p> <p>doc.n. <u>3739/79</u></p>	<p>18 mois 18 Monate 18 months</p>	<p>198.500.-</p>	<p>119.100.-</p>
<p>MM MATHE et ROBERT Freyning/Merleb Charb.français Franz.Köhlenb. werke French Coal</p>	<p>Implantation des organes de commande et de contrôle sur le pupitre et les tableaux de la salle de commande d'un nouveau groupe d'une centrale thermique</p> <p>Anordnung von Steuerungs-und Ueberwachungselementen auf dem Schaltpult und den Wandtafeln im Kontrollraum eines neuen Wärmekraftwerksaggregats</p> <p>Installation of controls and monitoring devices in the console and panels of the control room of a new generator unit in a thermal power station.</p> <p>doc.n. <u>3748/79</u></p>	<p>18 mois 18 Monate 18 months</p>	<p>165.500.-</p>	<p>99.300.-</p>
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<p>Mr. SCHOLTENS Ijmuiden Sidérurgie néerlandaise Niederl.Eisen-+ Stahlindustr. Dutch Steel</p>	<p>Systemes hautement automatisés aspects "alarme" Hochautomatisierte Systeme - Alarmsignale Highly automated systems - aspects "alarme" <u>doc.n. 3750/79</u></p>	<p>2 ans 2 Jahre 2 years</p>	<p>92.500.-</p>	<p>55.500.-</p>
<p>Mr. J. GUERIN Paris Sidérurgie française Franz.Eisen-+ Stahlindustr. French Steel</p>	<p>Fatigue mentale et travail de nuit dans des postes à charge mentale prédominante de la Sidérurgie Geistige Ermüdung bei Nachtarbeit mit überwiegend geistiger Beanspruchung in der Eisen- und Stahlin- dustrie Mental fatigue and night work at iron and steel industry posts involving mainly mental work <u>doc.n.4966/78</u></p>	<p>2 ans 2 Jahre 2 years</p>	<p>225.500.-</p>	<p>142.065.-</p>
<p>Mr.G. ALOE Taranto Sidérurgie ital. Italienische Eisen-+Stahlind. Italian Steel</p>	<p>Conception de projets ergonomiques dans le cadre de la mise en oeuvre de systemes d'automatisation et de la définition de nouveaux modèles d'organisation dans l'atelier de laminage de Tarante Ergonomische Projektarbeiten in Verbindung mit der Einführung von Automationssystemen sowie Definition neuer Organisationsmodelle im Walzwerkkomplex von Taranto Ergonomics design in connection with the introduction of automated systems and the definition of new patterns of organization within the Taranto rolling mill. <u>doc.n. 3751/79</u></p>	<p>2 ans 2 Jahre 2 years</p>	<p>430.500.-</p>	<p>258.300.-</p>

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<p>Prof. MOMMERTZ Düsseldorf Sidér. allemande Deutsche Eisen- und Stahlind. German Steel</p>	<p>Point III -b) du document n° 4065/79 Punkt III -b) des Dokuments Nr. 4065/79 Point III -b) of the document n. 4065/79</p> <p>Recherches de longue durée relatives à l'apparition de troubles auditifs chez les travailleurs de l'industrie exposés aux bruits</p> <p>Langzeit-Untersuchungen zur Entstehung und Entwicklung von Gehörschäden bei Lärm-exponierten Arbeitnehmern der Eisen- und Stahlindustrie</p> <p>Long term research into the origin and development of hearing damage in steel workers exposed to noise</p> <p>doc. n. <u>3737/79</u></p>	<p>4 ans 4 Jahre 4 years</p>	<p>339.000.-</p>	<p>203.400.-</p>
<p>Mr. LEAMON Bretby N.C.B.</p>	<p>La communication en milieux bruyants Kommunikation unter Lärmbelastung Communication in noise environments</p> <p>doc. n. <u>3747/79</u></p>	<p>3 ans 3 Jahre 3 years</p>	<p>301.000.-</p>	<p>180.600.-</p>
<p>Mr. MOUNIER Carmaux Charb. franç. Franz. Kohlenbw. French Coal</p>	<p>Amélioration de l'ambiance sonore dans des installations de lavage et de préparation du charbon</p> <p>Verbesserung des Lärmschutzes in Kohlenwasch- und Aufbereitungsanlagen</p> <p>Improvement of the noise environment in coal washing and preparation plants.</p> <p>doc. n. <u>3743/79</u></p>	<p>2 ans 2 Jahre 2 years</p>	<p>161.000.-</p>	<p>96.600.-</p>

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<p>Prof. HETTINGER Wuppertal Sid. allemande Deutsche Eisen- + Stahlindustrie German Steel</p>	<p>Point III - c) du document n° 4065/79 Punkt III - c) des Dokuments Nr. 4065/79 Point III - c) of the document n. 4065/79 ----- Contrainte et problèmes liés au port d'équipements de protection individuelle Belastung und Beanspruchung durch das Tragen persönlicher Schutzausrüstungen Stress and demands of wearing personal protective equipment doc. n. <u>3738/79</u></p>	<p>2 ans 2 Jahre 2 years</p>	<p>686.500.-</p>	<p>343.250.-</p>
<p>Prof. BURKARDT Frankfurt Charb.allemands Deutsche Kohlenbergwerke German coal</p>	<p>Graduation du confort des équipements de protection individuelle habituellement utilisés dans les mines Skalierung der Tragbequemlichkeit von bergbauüblichen Körperschutzmitteln Grading the wearability of personal protective equipment commonly used in mining doc.n. <u>3740/79</u></p>	<p>2 ans 2 Jahre 2 years</p>	<p>93.500.-</p>	<p>60.775.-</p>
<p>Mr. LEAMON Bretby NCB</p>	<p>Régulation thermique efficace des travailleurs - une étude de faisabilité - Aktives Personenbezogenes Kühlverfahren - Eine durchführbarkeitsstudie - Active man-cooling : a feasibility study - doc.n. <u>3745/79</u></p>	<p>3 ans 3 Jahre 3 years</p>	<p>157.750.-</p>	<p>94.650.-</p>

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<p>Dr. FANGER Lyngby</p> <p>Dr. VOGT Strasbourg Sid. Lux/Danoise Lux./Dän. Eisen- +Stahlindustrie Lux./Danish Steel</p>	<p>Le vêtement de travail, facteur déterminant dans la lutte contre le froid, dans le confort thermique et dans la protection contre le chaud</p> <p>Arbeitskleidung : ein bestimmter Faktor für Kälteschutz; Temperaturbehaglichkeit und Hitzeschutz</p> <p>Work clothing : a decisive factor in protection against cold, protection against heat and thermal comfort.</p> <p>doc. n. <u>3742/79</u></p>	<p>3 ans 3 Jahre 3 years</p>	<p>186.000.-</p> <p>210.500.-</p>	<p>102.300.-</p> <p>115.775.-</p>
<p>Mr. RAUCHS Esch/Alzette Sidérurgie Luxembourgeoise Lux.Eisen+Stahl- industrie Luxemb.Steel</p>	<p>Etablissement d'un catalogue d'exigences en vue de la réalisation d'un vêtement de protection contre la chaleur à refroidissement forcé.</p> <p>Erstellung eines Anforderungskatalogs für Hitzeschutzkleidung mit Zwangskühlung</p> <p>Compilation of a list of criteria for protective clothing with ducted cooling.</p> <p>doc.n. <u>3749/79</u></p>	<p>18 mois 18 Monate 18 months</p>	<p>283.000.-</p>	<p>169.800.--</p>
<p>Mr. ROETIGER Essen Charb.all.mands Deutsche Kohlenbw German Coal</p>	<p>Mise au point et expérimentation de modèles destinés à la formation professionnelle en matière de sécurité du travail.</p> <p>Entwicklung und Erprobung von Modellen zur betrieblichen Ausbildung in Arbeitssicherheit</p> <p>Development and testing of models in respect of implant training in occupational safety</p> <p>doc.n. <u>3741/79</u></p>	<p>3 ans 3 Jahre 3 years</p>	<p>409.500.-</p>	<p>266.175.-</p>

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<p>Mr. F. HARRISON Sunthorpe B.S.C.</p>	<p>Recherche sur l'atténuation des vibrations produites par les perforations et sur les modifications neuro-physiologiques caractérisant le phénomène de Raynaud</p> <p>Erforschung der Schwingungsdämpfung bei Gesteinbohrmaschinen und neuro-physiologischer Veränderung bei vibrationsbedingter Blutleere des Fingers</p> <p>Research into the attenuation of vibration of rock drilling machines and neuro-physiological changes in vibration induced white finger (VWF)</p> <p>doc. n. <u>3221/79</u></p>	<p>1 an 1 Jahr 1 year</p>	<p>176.000.-</p>	<p>105.600.-</p>
	<p>Frais annexes et de diffusion des connaissances</p>		<p>4.547.750.-</p>	<p>2.679.315.- 80.385.- <hr/><u>2.759.700.-</u></p>