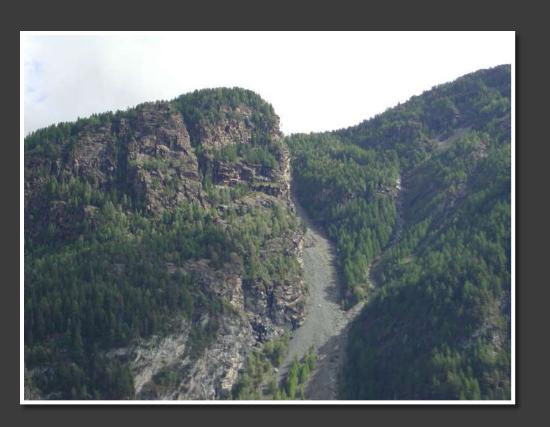
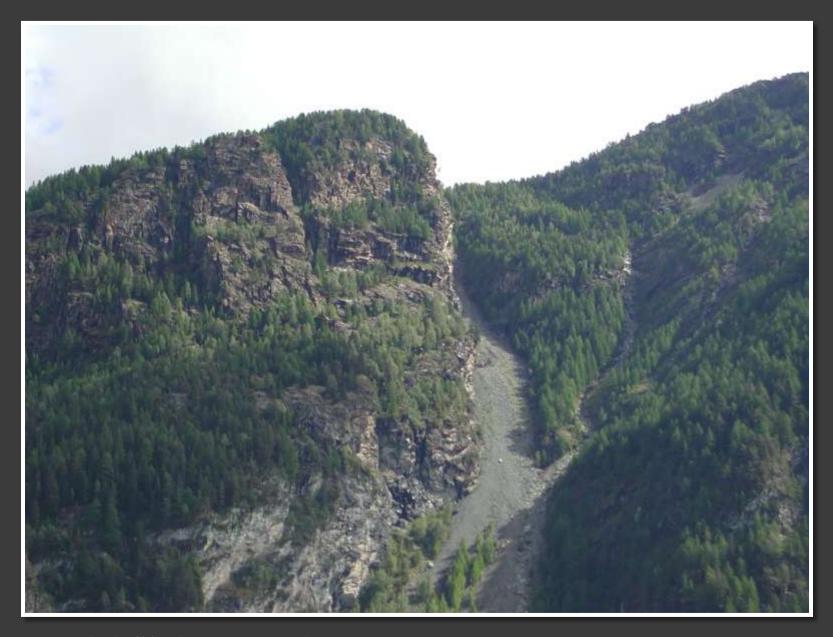


LA VALMALENCO DI "PIETRA"

Tirano, 11 marzo 2014



Lo "Sferlün"



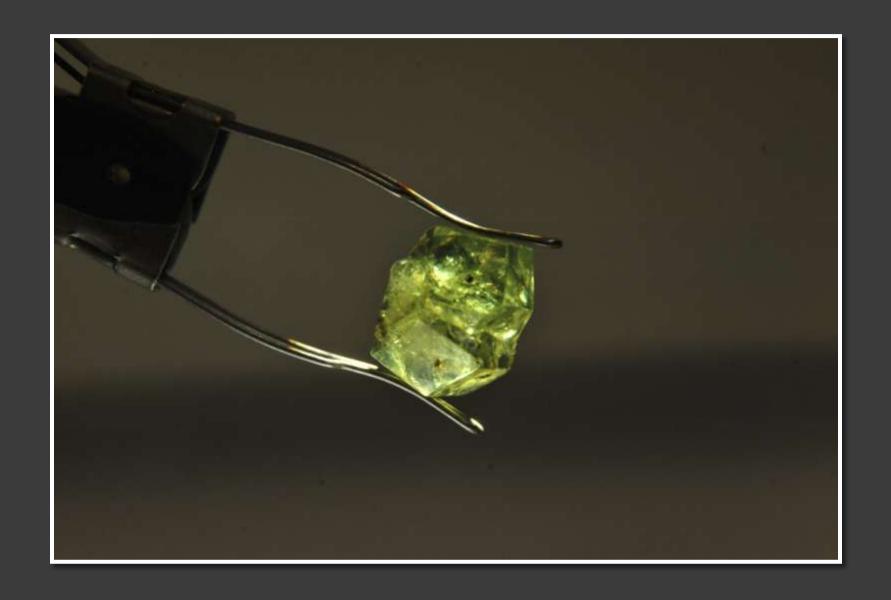
Località Sferlün, Lanzada.



Località Sferlün, Lanzada. Luglio 2007



Acquanera



Demantoide grezzo rinvenuto in località Sferlün.



Demantoidi della Valmalenco ritrovati in località Sferlün.



Ciondolo realizzato con Demantoide della Valmalenco proveniente dalla località Sferlün



Spilla realizzata con granati Demantoidi grezzi della Valmalenco e montata in oro 750‰



Demantoide Sferlun





Ingrandimento





Mastabia

NEPHRITE JADE FROM VAL MALENCO, SONDRIO, ITALY: REVIEW AND NEW DATA



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² Istituto Gemmologico Italiano, Milan, Italy



INTRODUCTION

Nephrite jude, valued for ornamental carriage and game, is an admost monomorphic rock, manufy a termolite [Ca,Mg,Si₃O₂₁(OH₃] composite [Ca,Mg,Pi₃,Si₄O₂₁(OH₃] composite Major nephrite numeros were fused in Claim, Bassin, Smith Clema.

New Zealand, and Australia. A new deposit producing genr-quality nephrits has been discovered some pasts ago at Matabla, in Val Malenco, Sondriu, northern haly. Nephrits is bound in a tak-termilitic orchody, associated with

delegate markle and calc-silicate rocks (Nichol and Gress, 2005).



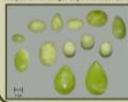


CH A

to organized particle (fight part of form and continue region desired from the desired market process to Particle (fight)

RESEARCH AIM

This mindy aims to provide a review and an update of the negative just from Manabia, Vol Malerson, reventigating a asin of both cut and mostly near parally samples by means of X-ray provider diffraction, combined with quantitative phase malysis (KRPD QPA), using the Ristwell method, electron microprobe analysis to severlyingh disponents mean (EMPA-WOS), here

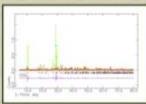


ablation industrively plasma mass apectroscopy (LA-JCP-MS), and midindused (IR) apectroscopy.

distay of the cost (3, 15) 27,50° or completes public diseas has Maybean Arridiseas/aprilled (1800) (1804) phones

XRPD QPA data

The apphrite jode from Vai Malonco resulted constituted mainly of terrocitie (Co.Mg.St.,Co./CHD.). with mour account of calcine, generally less than 5 w/%, as determined by means of XRPD QPA. An encognitude volume of ~30 w/th of calcine was found in the must whitch amplet, suggesting a correlation between the bar and the calcine armount.



Philips of the Control of the Contro

The unit cell parameters of termolite (space group C2/m) obtained on the basis of XRPD data collected using NBS-fit as internal outbrantum.

a(Å)=0.829(8)=0.842(3) b(Å)=18.046(2)=18.054(3) a(Å)=5.278(3)=5.279(2) β(7)=104.75(4)=104.77(2) V(Å)=406.62691-906.06(3)

RESULTS AND DISCUSSION Physical properties

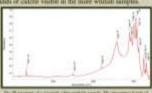
Color: the color community mages from white to whitegreen, up to green in a few temples.

Microstructure: the sample show a micro- to cryptotexture, that consists of a filteron intergrowth of about 10-20 µm long terminis crystals, that occur together with other accessivey constituents, identified by SEM-EDS as unknow, tale, disposite, apolite, and opaque iron minerals.



Surveyers shall not such assumed ought also see the good of explosive tasks from the Mathews. The whole good in the right BTM magaziness assumed by the task of the control of the state of

Infrared features: the mid-IR spectre in transmission made by KDr pellors are typical of remodile, with the bands of calcite visible in the more whitish samples.

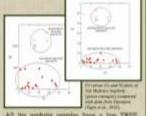


The IR spectrum of a present what registric counts The attraction funds

Chemical features

Chemical analyses show almost part remoditation composition (Looke et al., 1997), with a low concentration of most trace elements. All the elements of the first transition series (Se. Ti, V, Cs. Ma, Fu, Cu, Ni, Cu, Zu), in well as the sinciline auth metals (if, Ro), and the alkaline metals (K, Rb, Cu) as always less than 9.1 with, with the only exception of Na, ranging from 0.12 to 0.22 wile to Na₂O.

On the basis of the low Fo/Fee-Mg ratio (e0:002) and the low certaint of Co (0.07-0.27 ppm). Cr (1.86-4.36 ppm), and Ni (0.12-4.36 ppm), this negletic can be classified as decounter-related asynthetic (fispin et al., 2013).



All the nephrite samples have a low EREE (0.15-0.80 ppm), with a major contribution given by L- and M-REE (i.e. La. Ce and Nd).

CONCLUSION

The neglatic jade from Vei Melenor is composed of almost pure monodite, with minor amounts of other accessory constituents, mainly substite. The culter variation is more related to the taskine content nother than the concentration of the chromophere elements (i.e., Fe, Mn. Cr. Liu et al., 2010). The compact and fine-prained microstructure confers to this jade variety an agreeable appear, making it noneverthy as gene material.

Reference: Levis. M.L. Wookin. A.E. Ayes. C.E.S. (1997). Ass. Min. E. Wills-(1921). Lis. V., Geog. J., Wel, G., Liu, Y., He, M., Ny, V.-M., Book, C., Yang, L. Wong, Q. (1910). Sensor Const. 80, 209. 2009. Noblem. J. Geles. H. (2007). General. 19, 307-317. Noblem. J. Geles. H. (2007). General. 19, 307-317. Noblem. J. Geles. H. (2007). General. 19, 307-317. Noblem. J. (2008). S. (2008). T. Deng, M. Han, V. (1922). Size Y. Marin Sparson. 198. 109-211. Manifesto Conferenza Europea di Mineralogia

Francoforte 2-6 settembre 2012





AN ITALIAN JADE:

THE NEPHRITE FROM

VAL MALENCO (SONDRIO)

R. Bocchio* - I. Adamo* - L. Prosperi**



*Università degli Studi di Milano Dipartimento di Scienze della Terra ** IGI- Istituto Gemmologi Italiano, Milano



INTRODUCTION



Scortaseo talc mine



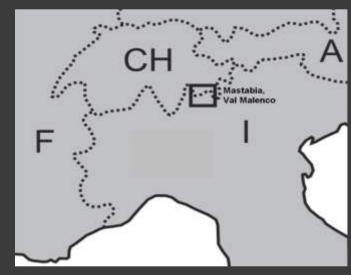


Jade beads necklaces and ear-pins made by local craftsmen out of Scortaseo Nephrite and local pink marble.



INTRODUCTION

A deposit of gem-quality nephrite jade has been discovered some years ago at Mastabia, in Val Malenco, some 20 km N-NW of the town of Sondrio, northern Italy. The discovery of the nephrite jade is attributed to Mr. Pietro Nana (Sondrio) who first noticed an attractive green stone in the discarded waste materials of an abandoned talc mine situated at an altitude of 9077 m





RESEARCH AIM AND EXPERIMENTAL

The aim of the present study is a multi-methodological investigation of nephrite jade from Val Malenco, in order to provide a full mineralogical-gemmological characterization of this gem-quality material

Gemmological standard testing, X-ray diffraction combined with quantitative full-phase analysis using the Rietveld method, EMP and LA-ICP-MS chemical analyses, mid-IR spectroscopic measurements, were used as analytical techniques.

Polished 1cm wide strips of Mastabia Nephrite Jade showing good translucency and the yellowish-green color (A), localized black inclusions (B) and areas with coarse Tremolite crystals (C)



Cave di Mastabia vista dal lago di Chiesa. Giugno 2012.



Ingresso franato livello 1.



Vecchia discarica con vista panoramica del gruppo del Bernina.



Varietà di Giada della Valmalenco.



Coppa in Giada di Mastabia.



Sculture in Giada di Mastabia.



Pizzo Tremogge



Gruppo Tremogge, Malenco, Entova visto dall'alpe Fora.



Filone di Clinothulite della Cengia del Cavallo.



Collana realizzata con Clinothulite del pizzo Tremogge.



Cuore in Serpentino Nobile (Lizardite).



Pizzo Forno



Pizzo Forno, filone Rodonite. Sullo sfondo, il monte Disgrazia.



Abitante del filone di Rodonite.

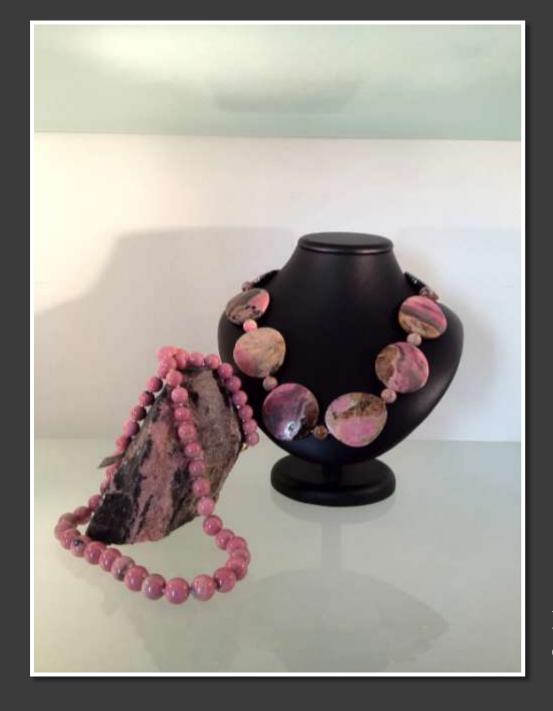


Un camoscio sulla cresta del filone di Rodonite.



Val di Scerscen vista dalla capanna Marinelli.





Rodonite del Pizzo Forno, collane e grezzo.



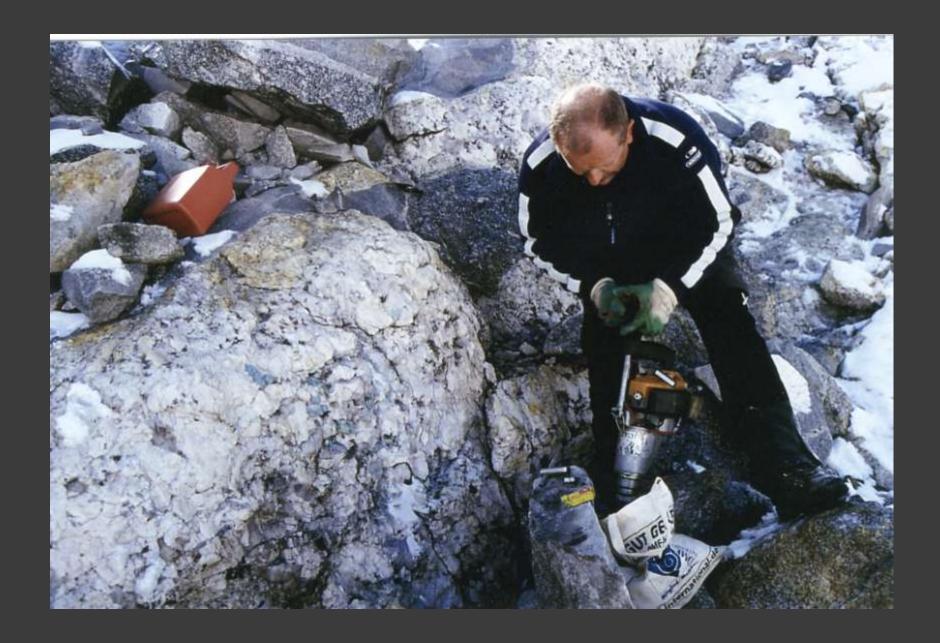
I Berilli della provincia di Sondrio



Val Sissone, vista dalla cima del Monte Disgrazia.











Berilli della Val di Mello.





Berilli della Val di Mello.















Berillo Acquamarina proveniente dal Monte Vazzeda.













Berillo montato in oro e diamanti della Val Bodengo.







